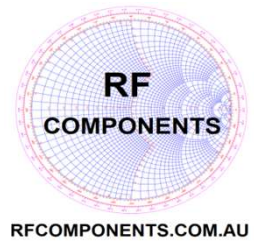


RF Components

LOW PIM & Non PIM rated Passive RF Components & Coaxial Adaptors

[Click Blue Link below to jump to required page](#)



3 dB Hybrid Couplers

[600 - 3800 MHz, N Type Connectors](#)
[600 - 3800 MHz, 7/16 DIN Connectors](#)
[600 - 3800 MHz, 4.3-10 Connectors](#)

Directional Couplers

[400 - 6000 MHz, N Type Connectors](#)
[400 - 6000 MHz, 7/16 DIN Connectors](#)
[400 - 6000 MHz, 4.3-10 Connectors](#)

Hybrid Combiners

[617 - 4200 MHz, N Type Connectors](#)
[617 - 4200 MHz, 7/16 DIN Connectors](#)
[617 - 4200 MHz, 4.3-10 Connectors](#)

Splitters Combiners (Reactive)

[550 MHz - 6000 MHz, N Type, 2, 3 & 4 Way](#)
[550 MHz - 6000 MHz, 7/16 DIN, 2, 3 & 4 Way](#)
[550 MHz - 6000 MHz, 4.3-10, 2, 3 & 4 Way](#)

Wilkinson Combiners

[500 MHz - 3800 MHz, 4.3-10, 2, 3 & 4 Way](#)

RF Cable Loads

[600 - 5850 MHz, 100 Watt 4.3-10 Male \(Connector on lead\)](#)
[600 - 5850 MHz, 100 Watt 4.3-10 Male \(Connector on Body\)](#)
[600 - 5850 MHz, 100 Watt 4.3-10 Female \(Connector on Body\)](#)
(INCLUDES EXTENSION CABLE FOR CABLE LOADS)

RF Attenuators

[SMA, 2 Watt, 6 GHz](#)
[SMA, 2 Watt, 18 GHz](#)
[SMA, 5 Watt, 6 GHz](#)
[SMA, 10 Watt, 6 GHz](#)
[N Type 2 Watt, 6 GHz](#)
[N Type 5 Watt, 6 GHz](#)
[4.3-10, 5 Watt, 6 GHz](#)
[4.3-10, 10 Watt, 6 GHz](#)

RF Terminations

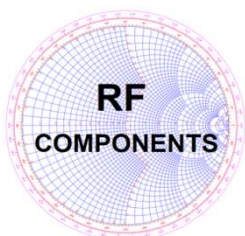
[SMA, 2 Watt, 18 GHz](#)
[SMA, 5 Watt, 6 GHz](#)
[SMA, 10 Watt, 6 GHz](#)
[N Type, 2 Watt, 6 GHz](#)
[N Type, 5 Watt, 6 GHz](#)
[N Type, 10 Watt, 6 GHz](#)
[4.3-10, 2 Watt, 6 GHz](#)
[4.3-10, 25 Watt, 6 GHz](#)
[4.3-10, 50 Watt, 6 GHz](#)

LOW PIM Cable Assemblies

[4.3-10 Male to Male](#)
[4.3-10 Female to Female](#)
[4.3-10 Male to Female](#)

RF Adaptors

[4.3-10 Female to 4.3-10 Female Coaxial Adaptor](#)
[4.3-10 Male to 4.3-10 Male Coaxial Adaptor](#)
[4.3-10 Female to N Type Female Coaxial Adaptor](#)
[4.3-10 Female to N Type Male Coaxial Adaptor](#)
[4.3-10 Male to N Female Coaxial Adaptor](#)
[NEX10 Male to 4.3-10 Female Coaxial Adaptor](#)
[NEX10 Male to N Type Female Coaxial Adaptor](#)



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N Type 3dB Hybrid Coupler

RFHC600-3800-N

600 - 3800 MHz, N Type Female Hybrid Coupler

LOW PIM SERIES

Rev 2

ELECTRICAL SPECIFICATION

Frequency Range (MHz)	600-3800MHz
Return Loss/VSWR	17.7 dB min
Coupling Attenuation	3±0.8dB max
Output Isolation	22dB min
IMD@2*43dBm(900MHz, 1800MHz,3500MHz)	153 dBc typ., 150dBc min
Power Handling	300W CW max
Impedance(Ω)	50 Ω

MECHANICAL SPECIFICATION

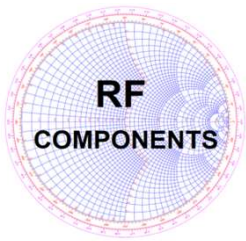
RF Connectors	N Type female on all ports
RF Connectors Configuration	See outline
Weight	1.0 Kg max
Dimensions without connectors	See outline
Outside finish	Powder coating
Product Configuration	Single unit
Mounting option	Screws
Mounting orientation	Any
Ground screw	N/A

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-
---------------------	-------------

ENVIRONMENTAL SPECIFICATION

Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-
Relative humidity	95% max
Application	IP65 for indoors & outdoors



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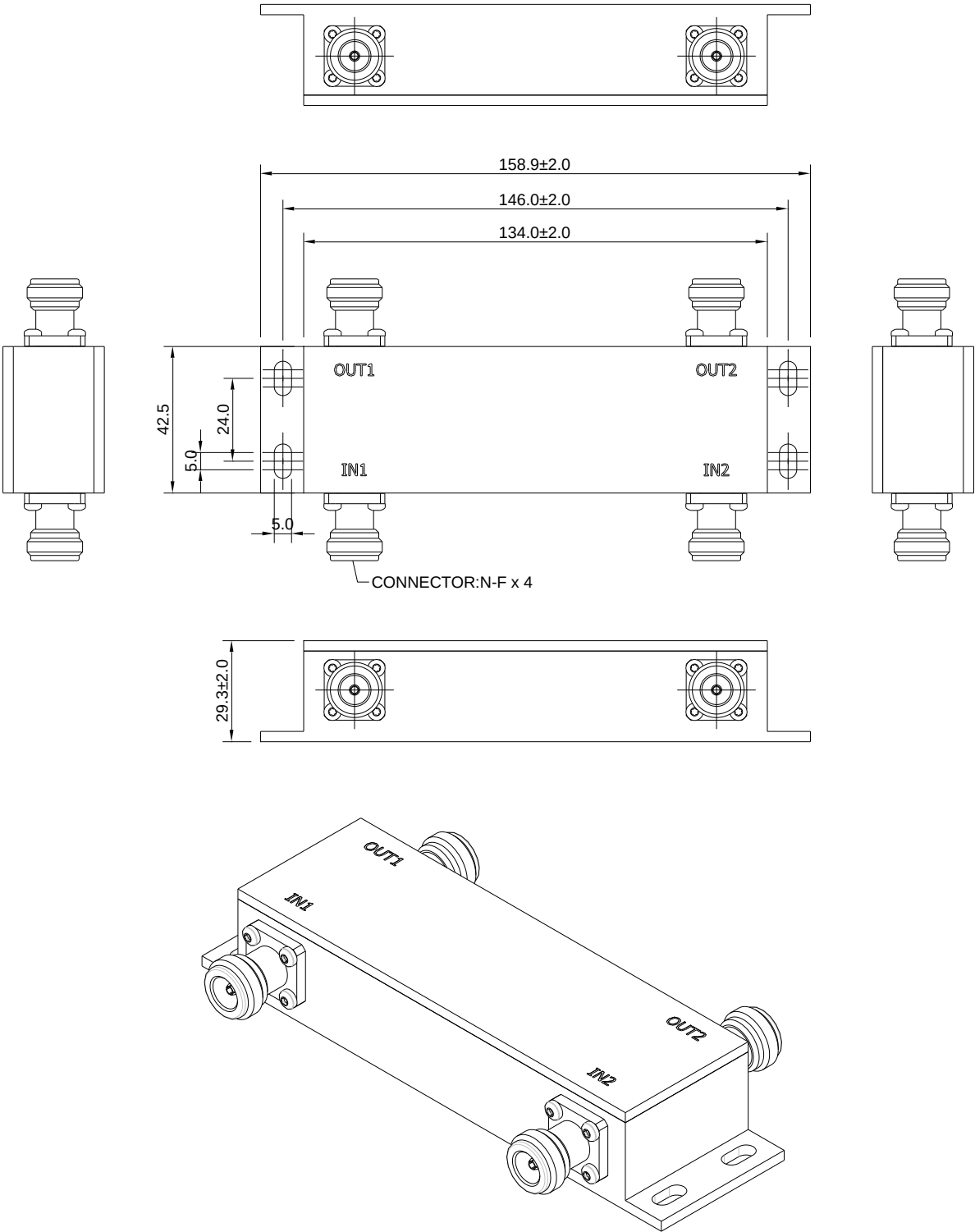
N Type 3dB Hybrid Coupler

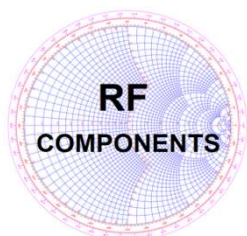
RFHC600-3800-N

600 - 3800 MHz, N Type Female Hybrid Coupler

LOW PIM SERIES

Rev 2





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7/16 DIN 3dB Hybrid Coupler

RFHC600-3800-DIN

600 - 3800 MHz, 7/16 DIN Female Hybrid Coupler

LOW PIM SERIES

Rev 2

ELECTRICAL SPECIFICATION

Frequency Range (MHz)	600-3800MHz
Return Loss/VSWR	17.7 dB min
Coupling Attenuation	3±0.8dB max
Output Isolation	22dB min
IMD@2*43dBm(900MHz, 1800MHz,3500MHz)	158 dBc typ., 155dBc min
Power Handling	300W CW max
Impedance(Ω)	50 Ω

MECHANICAL SPECIFICATION

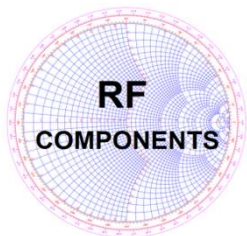
RF Connectors	7/16 DIN female on all ports
RF Connectors Configuration	See outline
Weight	1.0 Kg max
Dimensions without connectors	See outline
Outside finish	Powder coating
Product Configuration	Single unit
Mounting option	Screws
Mounting orientation	Any
Ground screw	N/A

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-
---------------------	-------------

ENVIRONMENTAL SPECIFICATION

Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-
Relative humidity	95% max
Application	IP65 for indoors & outdoors



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7/16 DIN 3dB Hybrid Coupler

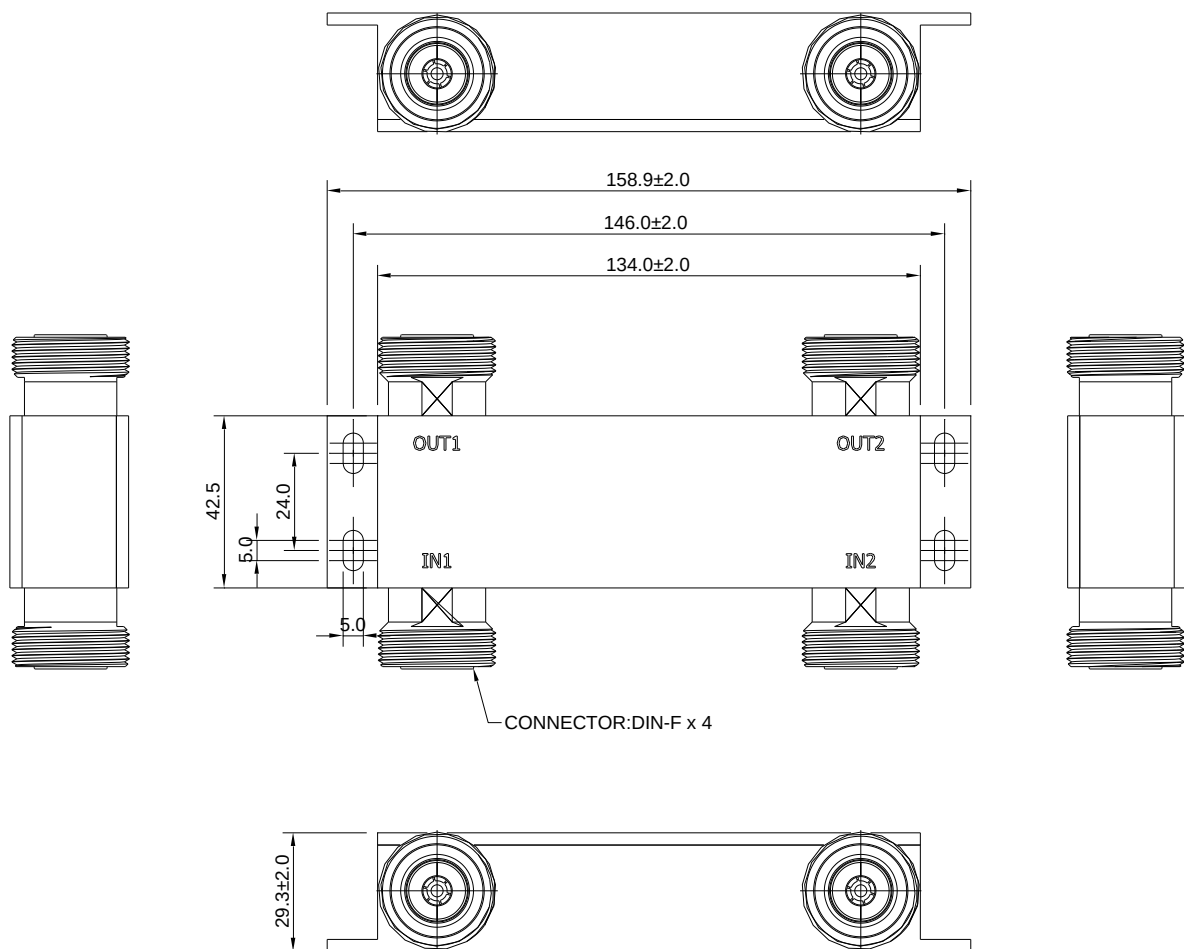
RFHC600-3800-DIN

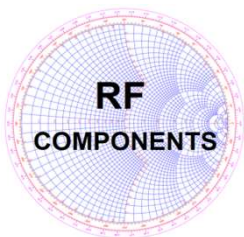
600 - 3800 MHz, 7/16 DIN Female Hybrid Coupler

LOW PIM SERIES

Rev 2

Outline for 7/16 Din Female for all ports





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4.3-10 3dB Hybrid Coupler

RFHC600-3800-4.3F

600 - 3800 MHz, 4.3-10 Female Hybrid Coupler

LOW PIM SERIES

Rev 2

ELECTRICAL SPECIFICATION

Frequency Range (MHz)	600-3800MHz
Return Loss/VSWR	17.7 dB min
Coupling Attenuation	3±0.8dB max
Output Isolation	22dB min
IMD@2*43dBm(900MHz, 1800MHz,3500MHz)	158 dBc typ., 155dBc min
Power Handling	300W CW max
Impedance(Ω)	50 Ω

MECHANICAL SPECIFICATION

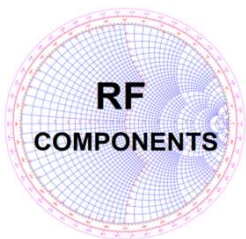
RF Connectors	4.3-10 female on all ports
RF Connectors Configuration	See outline
Weight	1.0 Kg max
Dimensions without connectors	See outline
Outside finish	Powder coating
Product Configuration	Single unit
Mounting option	Screws
Mounting orientation	Any
Ground screw	N/A

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-
---------------------	-------------

ENVIRONMENTAL SPECIFICATION

Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-
Relative humidity	95% max
Application	IP65 for indoors & outdoors



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4.3-10 3dB Hybrid Coupler

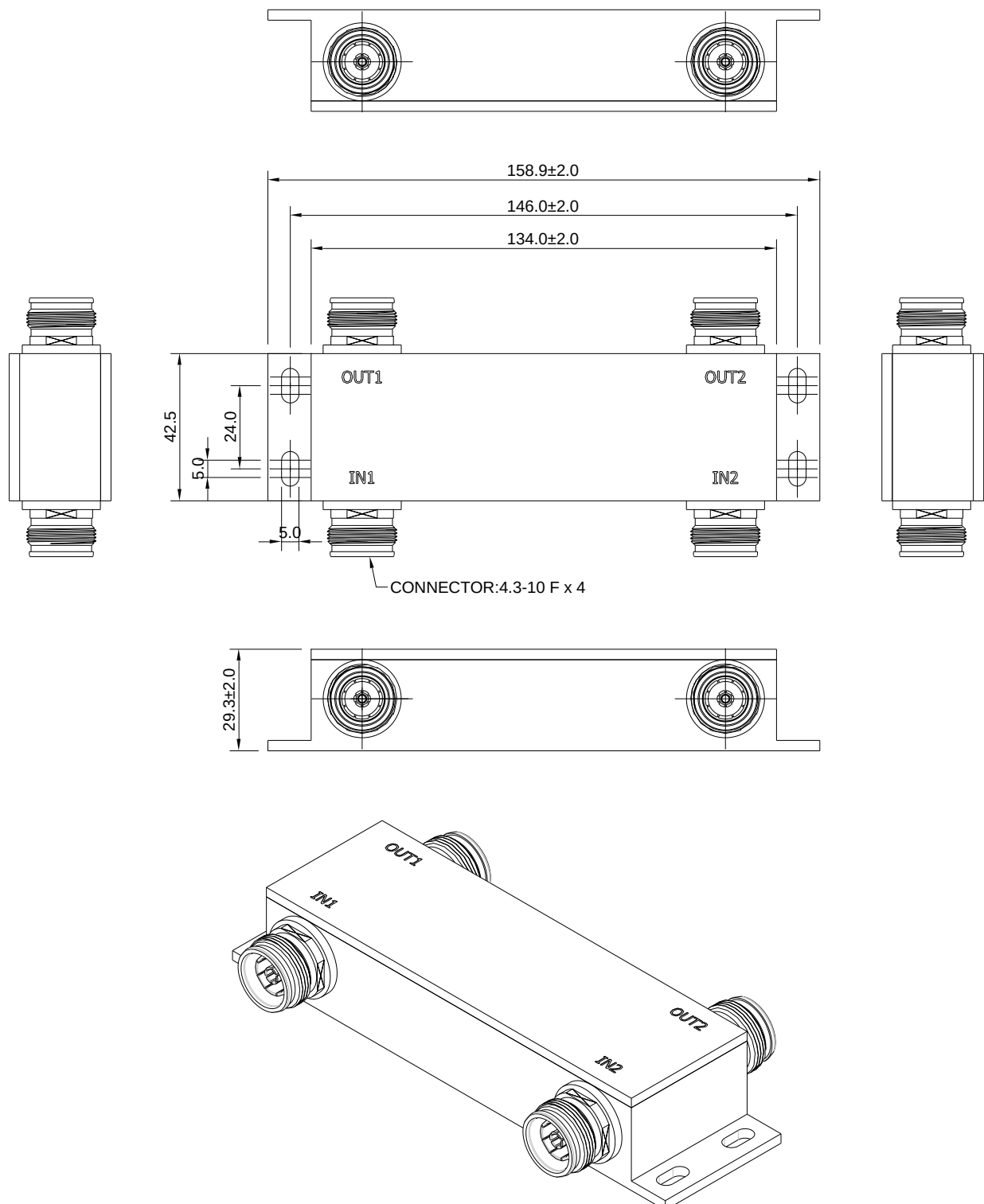
RFHC600-3800-4.3F

600 - 3800 MHz, 4.3-10 Female Hybrid Coupler

LOW PIM SERIES

Rev 2

Outline for 4310 Female for all ports



N Type Directional Couplers

RFDCN-400-6000-XX

400 - 6000 MHz, N Type Directional Couplers

LOW PIM SERIES Rev 3

ELECTRICAL SPECIFICATION

Model Number	RFDCN-400-6000-05	RFDCN-400-6000-06	RFDCN-400-6000-07	RFDCN-400-6000-08	RFDCN-400-6000-10	RFDCN-400-6000-12	RFDCN-400-6000-13	RFDCN-400-6000-15	RFDCN-400-6000-20	RFDCN-400-6000-30	RFDCN-400-6000-40
Frequency Band(MHz)	400 - 6000 MHz										
Coupling(dB)	5±1.8	6±1.8	7±1.8	8±1.8	10±2	12±2	13±2	15±2	20±2	30±2.5	40±2.5
Isolation(dB)	≥19	≥21	≥22	≥23	≥25	≥27	≥28	≥30	≥35	≥45	≥55
Insertion Loss(dB)	≤2.35	≤1.8	≤1.55	≤1.35	≤1.2	≤0.9	≤0.7	≤0.6	≤0.4	≤0.3	≤0.2
VSWR	≤1.3										
Impedance(Ω)	50Ω										
IMD with 2*43 dBm	155 dBc typ., 150 dBc min										
Power Handling	200 W CW max, 2000W Peak max										

MECHANICAL SPECIFICATION

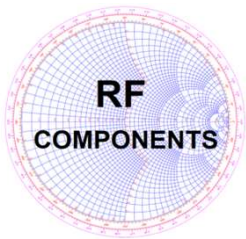
RF Connectors	N Type Female
RF Connectors Configuration	See outline
Weight	1.0 Kg max
Dimensions without connectors and mounting brackets	See outline
Outside finish	Black, powder coating
Product Configuration	Single unit
Mounting option	Screws
Mounting orientation	
Ground screw	N/A

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-CORE
---------------------	-----------------

ENVIRONMENTAL SPECIFICATION

Temperature Range	-35 to +75° C
IP Class	IP65, indoor or outdoor
EMC / EMI	NEBS GR-1089-CORE and EN 55022
Safety	EN 60950
Corrosion resistance	14 days salt fog according to IEC 60068 2-11 Test Ka



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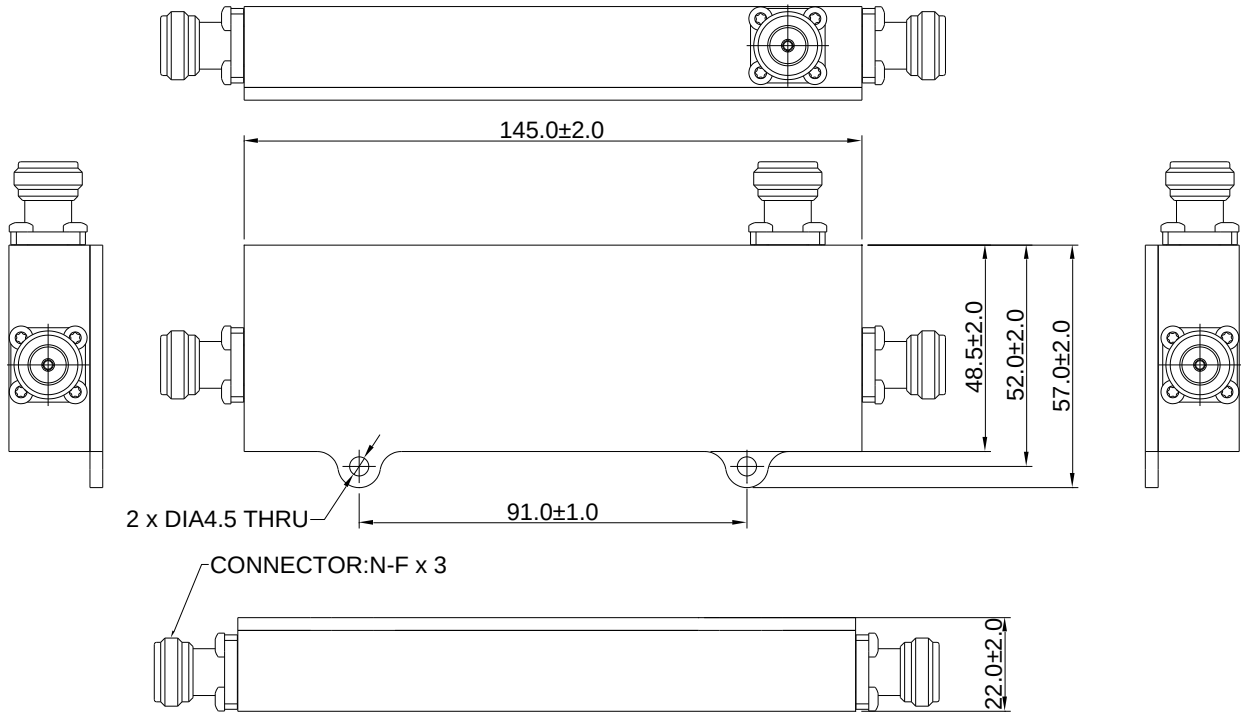
N Type Directional Couplers

RFDCN-400-6000-XX

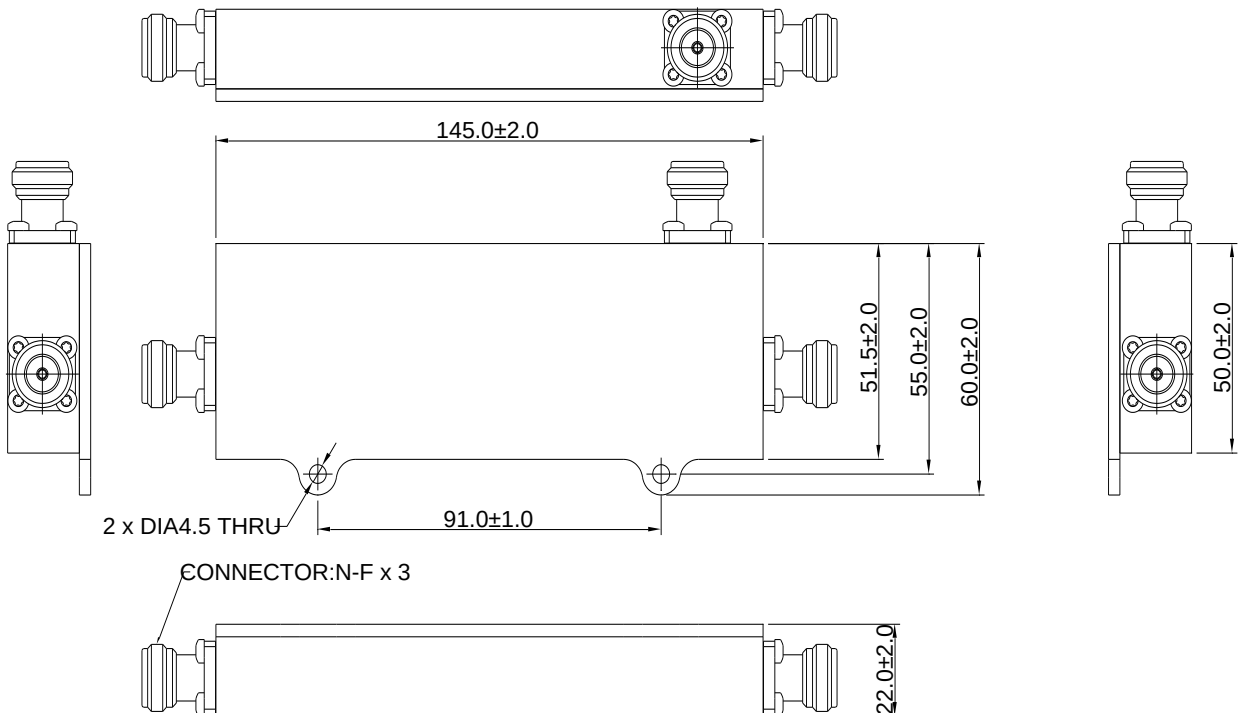
400 - 6000 MHz, N Type Directional Couplers

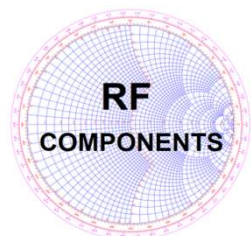
LOW PIM SERIES Rev 3

Outline for 5-20 dB range coupling, N female



Outline for 30-40 dB range coupling, N female





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7/16 DIN Directional Couplers

RFDC716-400-6000-XX

400 - 6000 MHz, 7/16 DIN Directional Couplers

LOW PIM SERIES

Rev 3

ELECTRICAL SPECIFICATION

Model Number	RFDC716-400-6000-05	RFDC716-400-6000-06	RFDC716-400-6000-07	RFDC716-400-6000-08	RFDC716-400-6000-10	RFDC716-400-6000-12	RFDC716-400-6000-13	RFDC716-400-6000-15	RFDC716-400-6000-20	RFDC716-400-6000-30	RFDC716-400-6000-40
Frequency Band(MHz)	400 - 6000 MHz										
Coupling(dB)	5±1.8	6±1.8	7±1.8	8±1.8	10±2	12±2	13±2	15±2	20±2	30±2.5	40±2.5
Isolation(dB)	≥19	≥21	≥22	≥23	≥25	≥27	≥28	≥30	≥35	≥45	≥55
Insertion Loss(dB)	≤2.35	≤1.8	≤1.55	≤1.35	≤1.2	≤0.9	≤0.7	≤0.6	≤0.4	≤0.3	≤0.2
VSWR	≤1.3										
Impedance(Ω)	50Ω										
IMD with 2*43 dBm	160 dBc typ., 155 dBc min										
Power Handling	200 W CW max, 2000W Peak max										

MECHANICAL SPECIFICATION

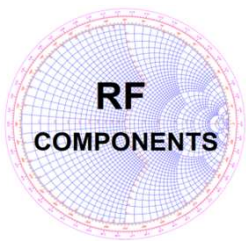
RF Connectors	7/16 DIN Female
RF Connectors Configuration	See outline
Weight	1.0 Kg max
Dimensions without connectors and mounting brackets	See outline
Outside finish	Black, powder coating
Product Configuration	Single unit
Mounting option	Screws
Mounting orientation	
Ground screw	N/A

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-CORE
---------------------	-----------------

ENVIRONMENTAL SPECIFICATION

Temperature Range	-35 to +75° C
IP Class	IP65, indoor or outdoor
EMC / EMI	NEBS GR-1089-CORE and EN 55022
Safety	EN 60950
Corrosion resistance	14 days salt fog according to IEC 60068 2-11 Test Ka



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7/16 DIN Directional Couplers

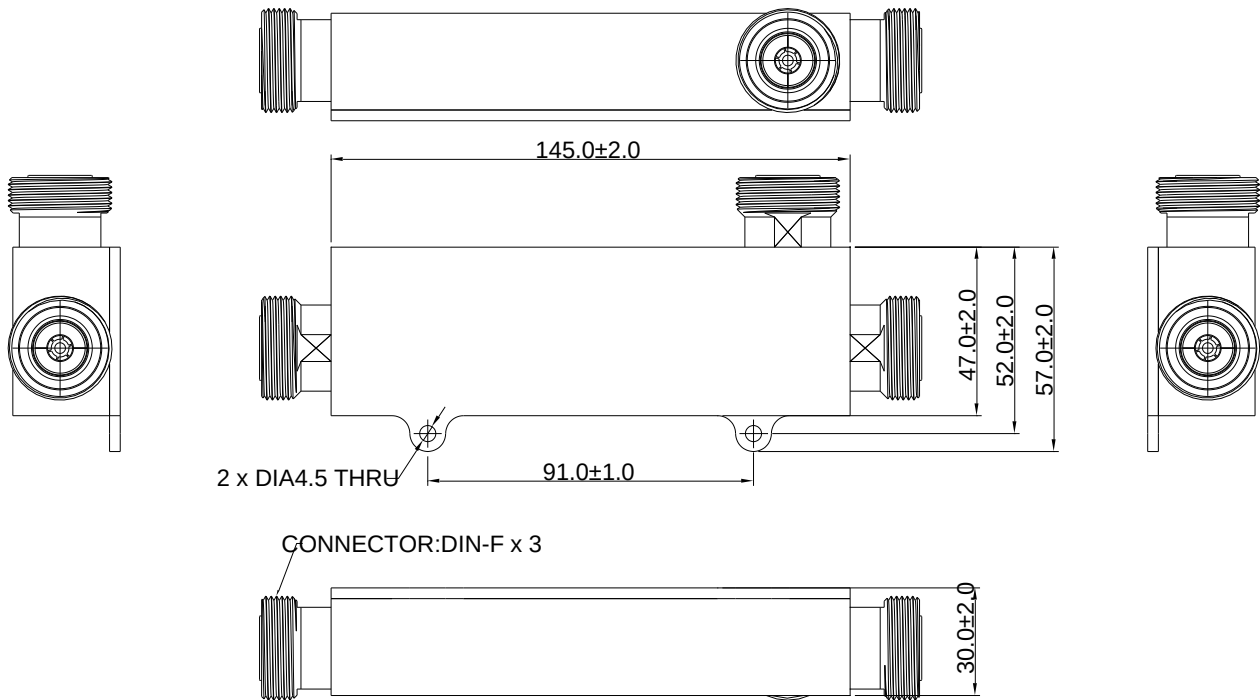
RFDC716-400-6000-XX

400 - 6000 MHz, 7/16 DIN Directional Couplers

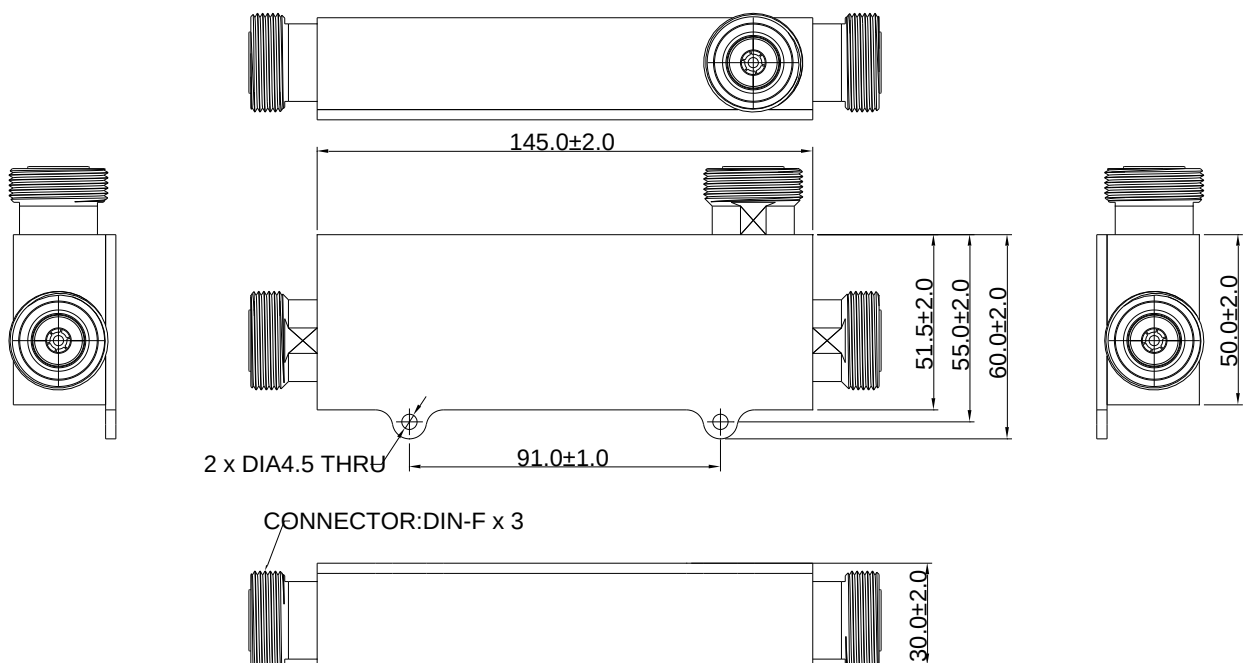
LOW PIM SERIES

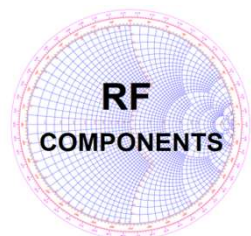
Rev 3

Outline for 5-20 dB range coupling, 7/16 Din female



Outline for 30-40dB range coupling, 7/16 Din female





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4.3-10 Directional Couplers

RFDC4.3-400-6000-XX

400 - 6000 MHz, 4.3-10 Directional Couplers

LOW PIM SERIES

Rev 3

ELECTRICAL SPECIFICATION

Model Number	RFDC43-400-6000-05	RFDC43-400-6000-06	RFDC43-400-6000-07	RFDC43-400-6000-08	RFDC43-400-6000-10	RFDC43-400-6000-12	RFDC43-400-6000-13	RFDC43-400-6000-15	RFDC43-400-6000-20	RFDC43-400-6000-30	RFDC43-400-6000-40
Frequency Band(MHz)	400 - 6000 MHz										
Coupling(dB)	5±1.8	6±1.8	7±1.8	8±1.8	10±2	12±2	13±2	15±2	20±2	30±2.5	40±2.5
Isolation(dB)	≥19	≥21	≥22	≥23	≥25	≥27	≥28	≥30	≥35	≥45	≥55
Insertion Loss(dB)	≤2.35	≤1.8	≤1.55	≤1.35	≤1.2	≤0.9	≤0.7	≤0.6	≤0.4	≤0.3	≤0.2
VSWR	≤1.3										
Impedance(Ω)	50Ω										
IMD with 2*43 dBm	160 dBc typ., 155 dBc min										
Power Handling	200 W CW max, 2000W Peak max										

MECHANICAL SPECIFICATION

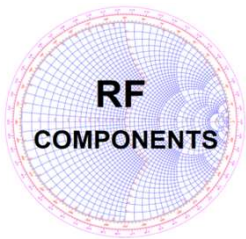
RF Connectors	4.3-10 Female
RF Connectors Configuration	See outline
Weight	1.0 Kg max
Dimensions without connectors and mounting brackets	See outline
Outside finish	Black, powder coating
Product Configuration	Single unit
Mounting option	Screws
Mounting orientation	
Ground screw	N/A

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-CORE
---------------------	-----------------

ENVIRONMENTAL SPECIFICATION

Temperature Range	-35 to +75° C
IP Class	IP65, indoor or outdoor
EMC / EMI	NEBS GR-1089-CORE and EN 55022
Safety	EN 60950
Corrosion resistance	14 days salt fog according to IEC 60068 2-11 Test Ka



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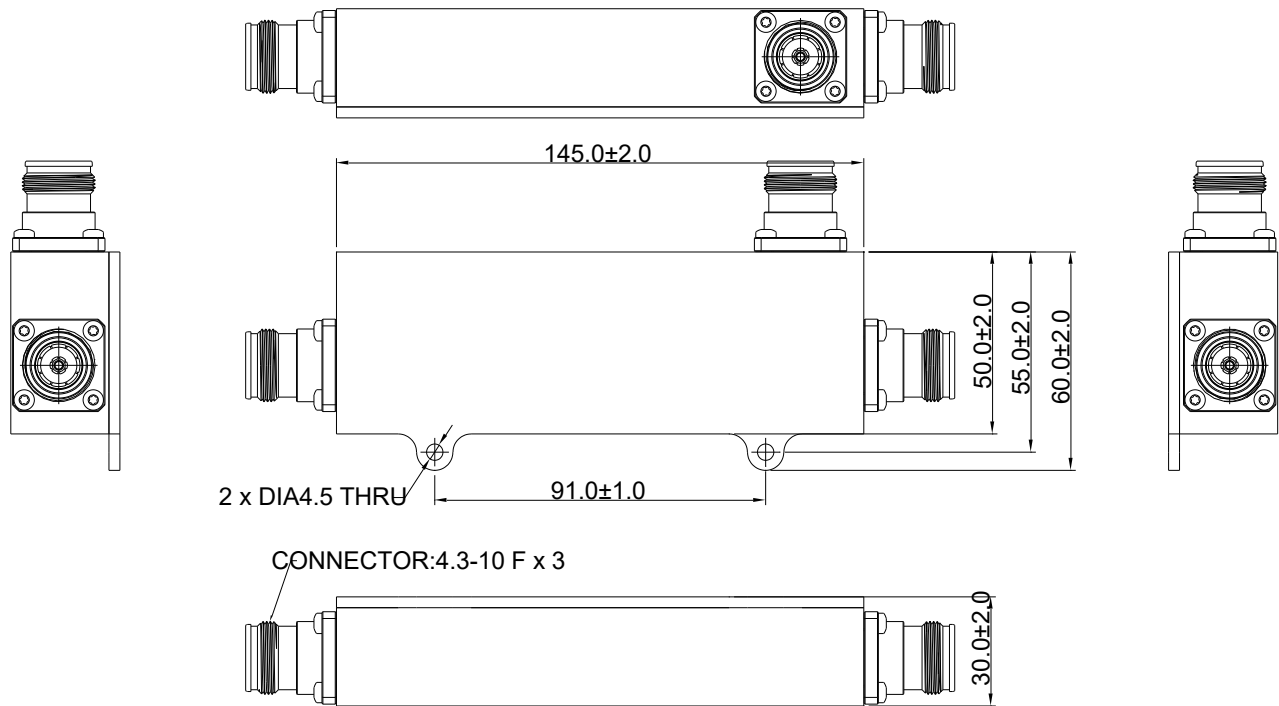
4.3-10 Directional Couplers

RFDC4.3-400-6000-XX

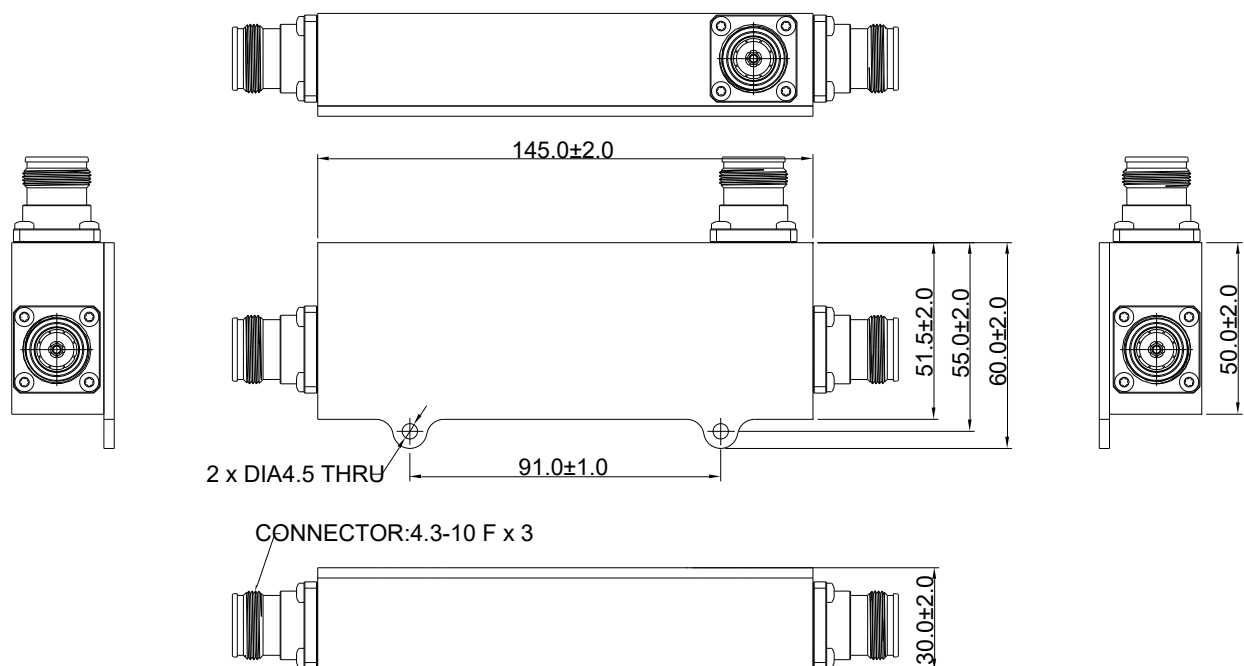
400 - 6000 MHz, 4.3-10 Directional Couplers

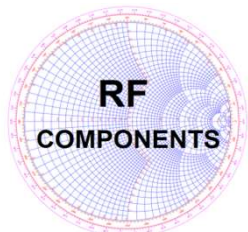
LOW PIM SERIES Rev 2

Outline for 5-20 dB range coupling, 4310 female



Outline for 30-40 dB range coupling, 4310 female





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4 X 4 Hybrid Combiner

RFMC4-617-4200-NF

617 - 4200 MHz, N Type, 4 In, 4 Out Hybrid Combiner

LOW PIM SERIES

Rev 2

ELECTRICAL SPECIFICATION

Frequency Range (MHz)	617-4200MHz
Return Loss/VSWR	17.7 dB min
Coupling Attenuation	6.1 $\pm$ 1.35dB max
Output Isolation	22dB min
IMD@2*43dBm(900MHz, 1800MHz,3500MHz)	153 dBc typ., 150dBc min
Power Handling	300W CW max
Impedance(Ω)	50 Ω

MECHANICAL SPECIFICATION

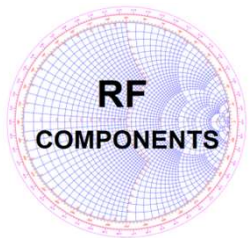
RF Connectors	N Type female for all ports
RF Connectors Configuration	See outline
Weight	1.0 Kg max
Dimensions without connectors	See outline
Outside finish	Powder coating
Product Configuration	Single unit
Mounting option	Screws
Mounting orientation	Any
Ground screw	N/A

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-CORE
---------------------	-----------------

ENVIRONMENTAL SPECIFICATION

Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-40°C to +85°C
Relative humidity	95% max
Application	IP65 for indoors & outdoors



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4 X 4 Hybrid Combiner

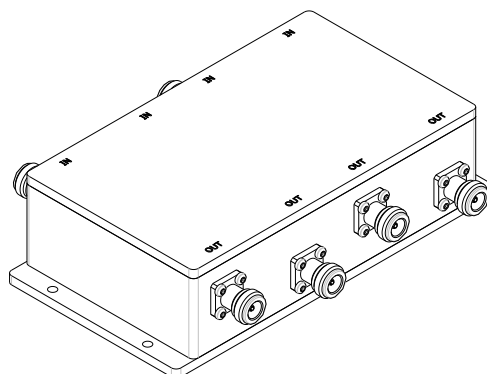
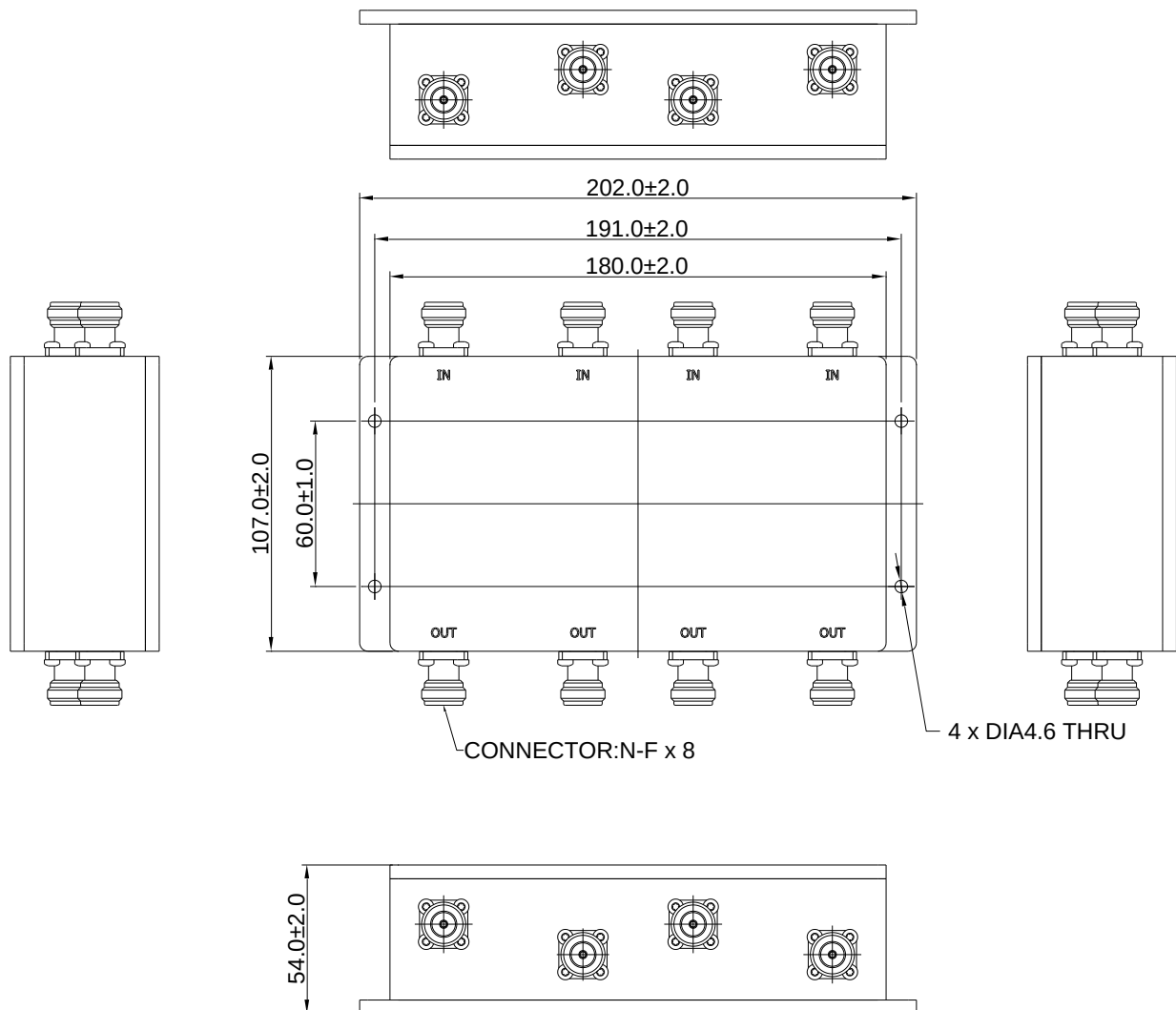
RFHCNF-400-6000-4

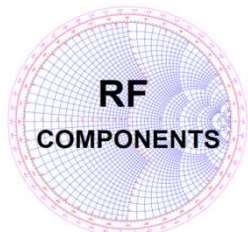
400 - 6000 MHz, N Type, 4 In, 4 Out Hybrid Combiner

LOW PIM SERIES

Rev 2

Outline for N female





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4 X 4 Hybrid Combiner

RFMC4-617-4200-DINF

617 - 4200 MHz, 7/16 DIN, 4 In, 4 Out Hybrid Combiner

LOW PIM SERIES

Rev 2

ELECTRICAL SPECIFICATION

Frequency Range (MHz)	617-4200MHz
Return Loss/VSWR	17.7 dB min
Coupling Attenuation	6.1 $\pm$ 1.35dB max
Output Isolation	22dB min
IMD@2*43dBm(900MHz, 1800MHz,3500MHz)	158 dBc typ., 155dBc min
Power Handling	300W CW max
Impedance(Ω)	50 Ω

MECHANICAL SPECIFICATION

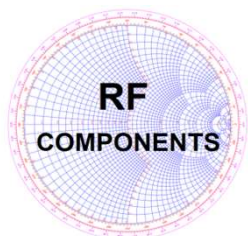
RF Connectors	7/16 DIN female for all ports
RF Connectors Configuration	See outline
Weight	1.0 Kg max
Dimensions without connectors	See outline
Outside finish	Powder coating
Product Configuration	Single unit
Mounting option	Screws
Mounting orientation	Any
Ground screw	N/A

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-CORE
---------------------	-----------------

ENVIRONMENTAL SPECIFICATION

Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-40°C to +85°C
Relative humidity	95% max
Application	IP65 for indoors & outdoors



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4 X 4 Hybrid Combiner

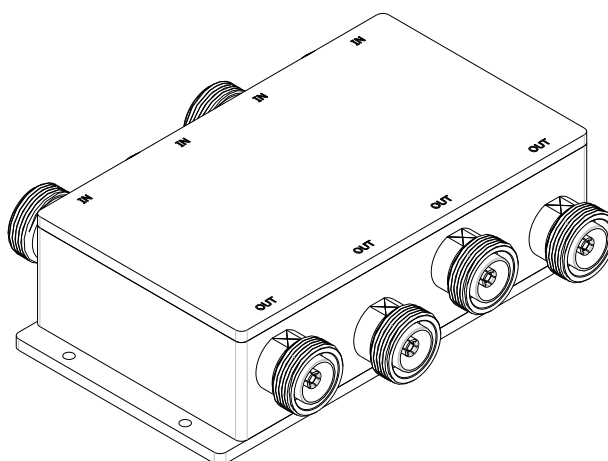
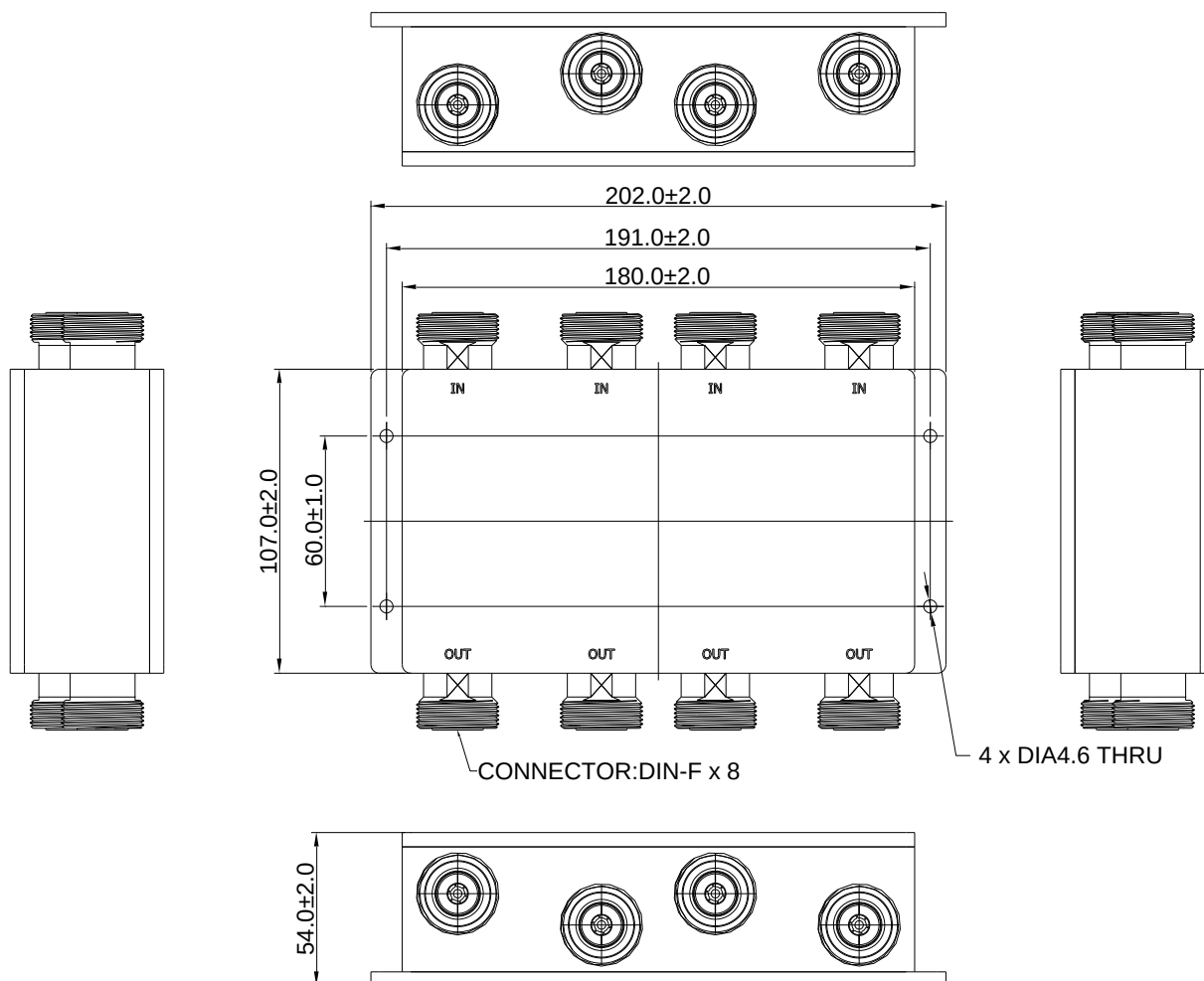
RFHC716F-400-6000-4

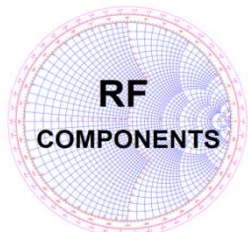
400 - 6000 MHz, 7/16 DIN, 4 In, 4 Out Hybrid Combiner

LOW PIM SERIES

Rev 2

Outline for 7/16 Din Female





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4 X 4 Hybrid Combiner

RFMC4-617-4200-43F

617 - 4200 MHz, 4.3-10, 4 In, 4 Out Hybrid Combiner

LOW PIM SERIES

Rev 2

ELECTRICAL SPECIFICATION

Frequency Range (MHz)	617-4200MHz
Return Loss/VSWR	17.7 dB min
Coupling Attenuation	6.1± 1.35 dB max
Output Isolation	22dB min
IMD@2*43dBm(900MHz, 1800MHz,3500MHz)	158 dBc typ., 155dBc min
Power Handling	300W CW max
Impedance(Ω)	50 Ω

MECHANICAL SPECIFICATION

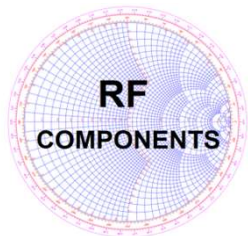
RF Connectors	4.3-10 female for all ports
RF Connectors Configuration	See outline
Weight	1.0 Kg max
Dimensions without connectors	See outline
Outside finish	Powder coating
Product Configuration	Single unit
Mounting option	Screws
Mounting orientation	Any
Ground screw	N/A

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-CORE
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ENVIRONMENTAL SPECIFICATION

Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-40°C to +85°C
Relative humidity	95% max
Application	IP65 for indoors & outdoors



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4 X 4 Hybrid Combiner

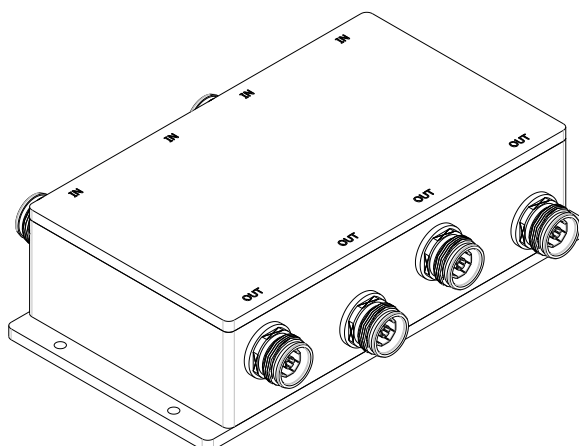
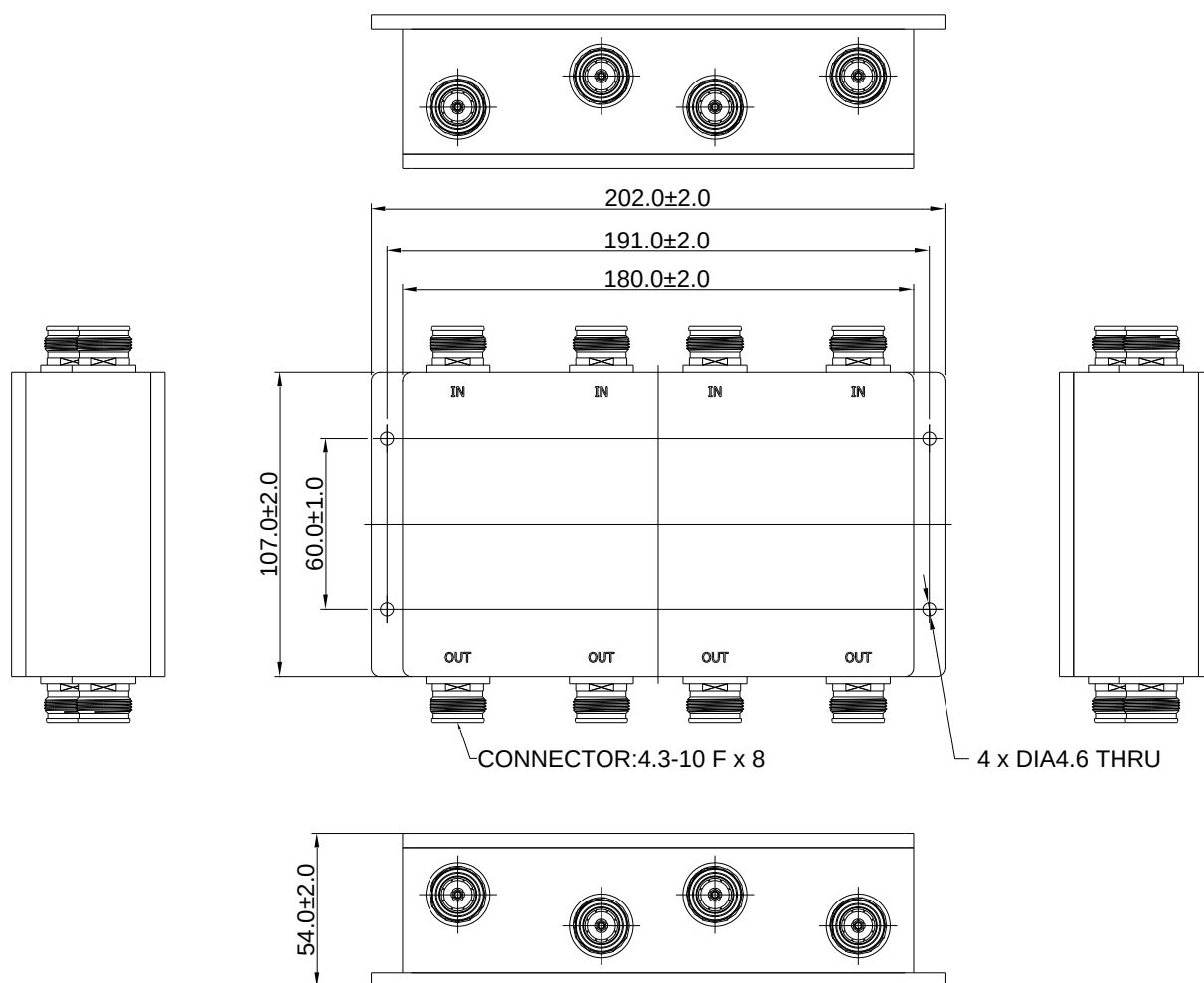
RFHC4.3F-400-6000-4

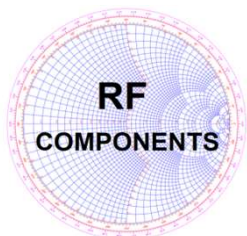
400 - 6000 MHz, 4.3-10, 4 In, 4 Out Hybrid Combiner

LOW PIM SERIES

Rev 2

Outline for 4310 Female





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Reactive Splitter Combiners

RFSC550-6000-X-NF

550 MHz - 6000 MHz, N Type Female, 2, 3 and 4 Way

LOW PIM SERIES

ELECTRICAL SPECIFICATION

Model No.	RFSC550-6000-2-NF	RFSC550-6000-3-NF	RFSC-550-6000-4-NF
Splitter	2way	3way	4way
Frequency	550-6000MHz		
Insertion loss	3dB	dB	6 dB
Return Loss	17.7 dB min		
Split loss	$\leq 0.3\text{dB}$	$\leq 0.6\text{ dB}$	$\leq 1\text{ dB}$
Power handling	300W CW max		
IMD@2*43dBm(900 MHz, 1800MHz, 3500MHz)	153 dBc typ. ,150dBc min		
Impedance	50 Ω		

MECHANICAL SPECIFICATION

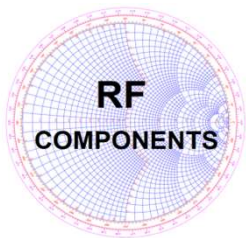
RF Connectors	N-female All Ports
RF Connectors Configuration	See outline
Weight	1.0 Kg max
Dimensions	See outline
Outside finish	Powder Coating
Product Configuration	Single unit
Mounting option	Screws
Mounting orientation	Any
Ground screw	N/A

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-CORE
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ENVIRONMENTAL SPECIFICATION

Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-40°C to +85°C
Relative humidity	95% max
IP Class	IP65 for indoor or outdoor



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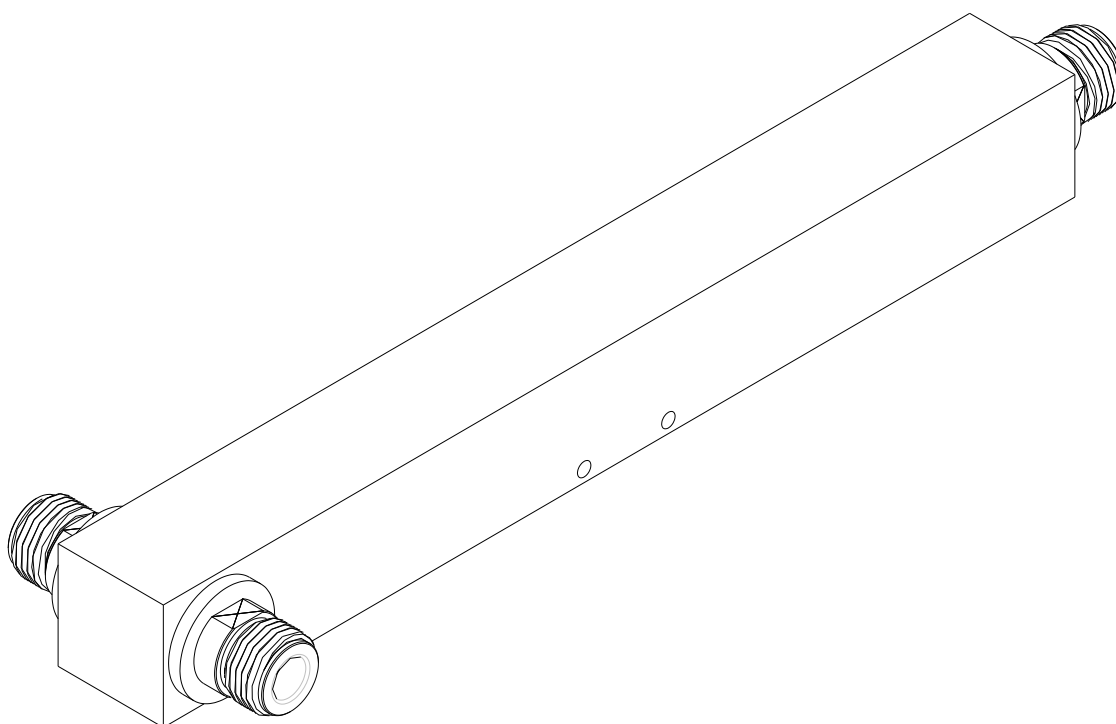
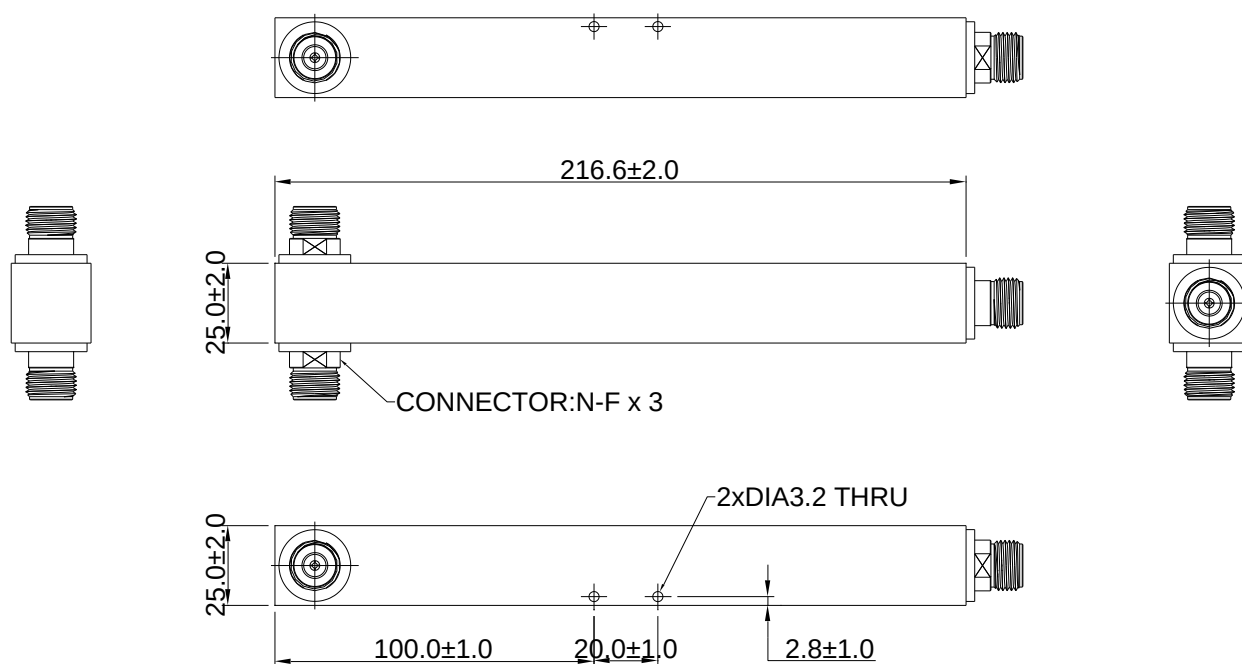
Reactive Splitter Combiners

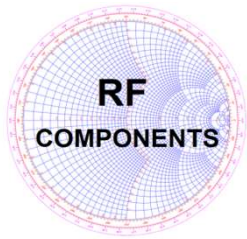
RFSC550-6000-X-NF

550 MHz - 6000 MHz, N Type Female, 2, 3 and 4 Way

LOW PIM SERIES

Outline for 2 Way Splitter, N female





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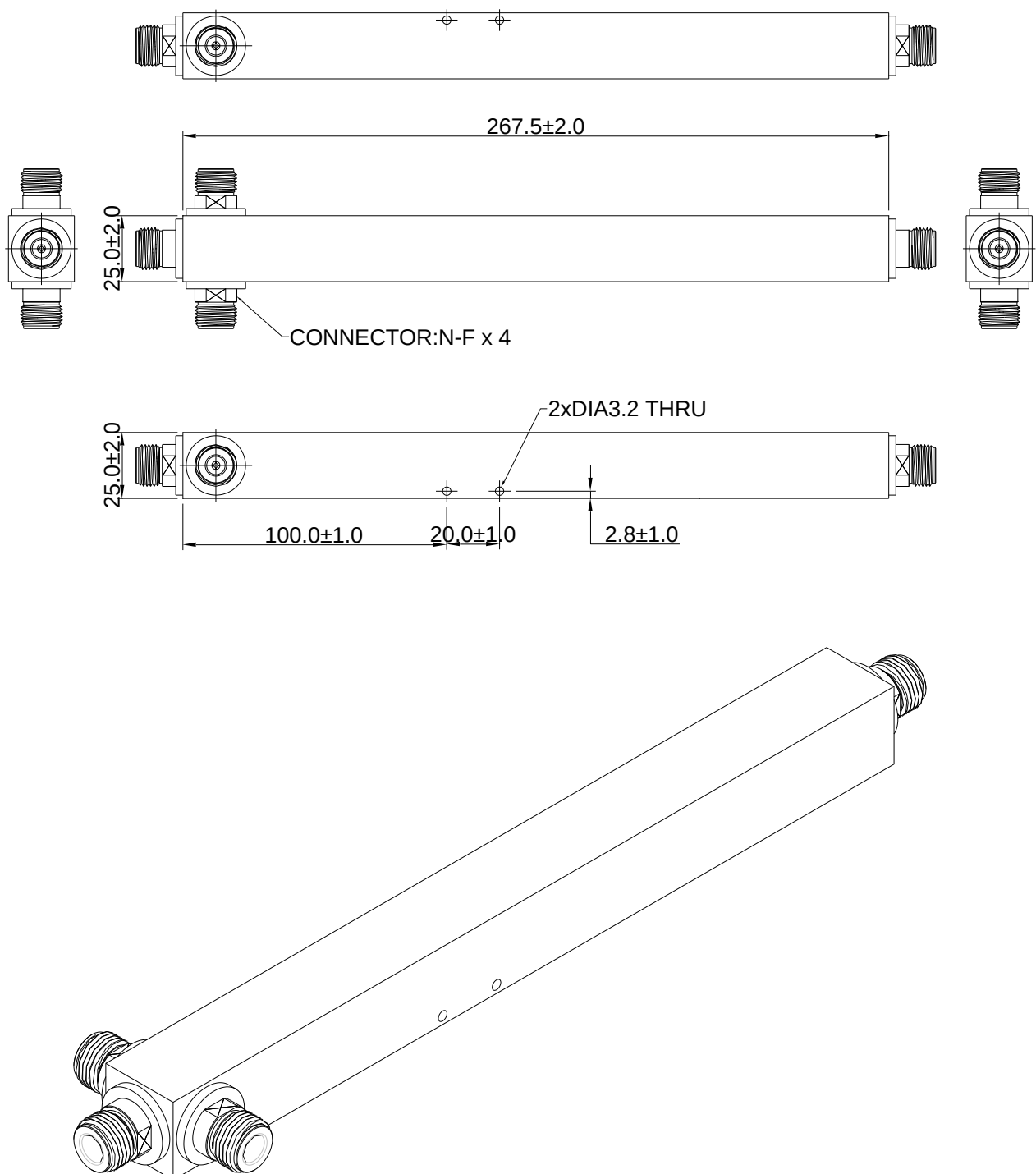
Reactive Splitter Combiners

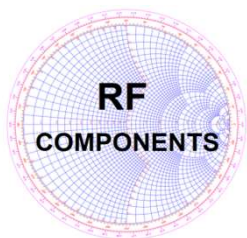
RFSC550-6000-X-NF

550 MHz - 6000 MHz, N Type Female, 2, 3 and 4 Way

LOW PIM SERIES

Outline for 3 Way Splitter, N female





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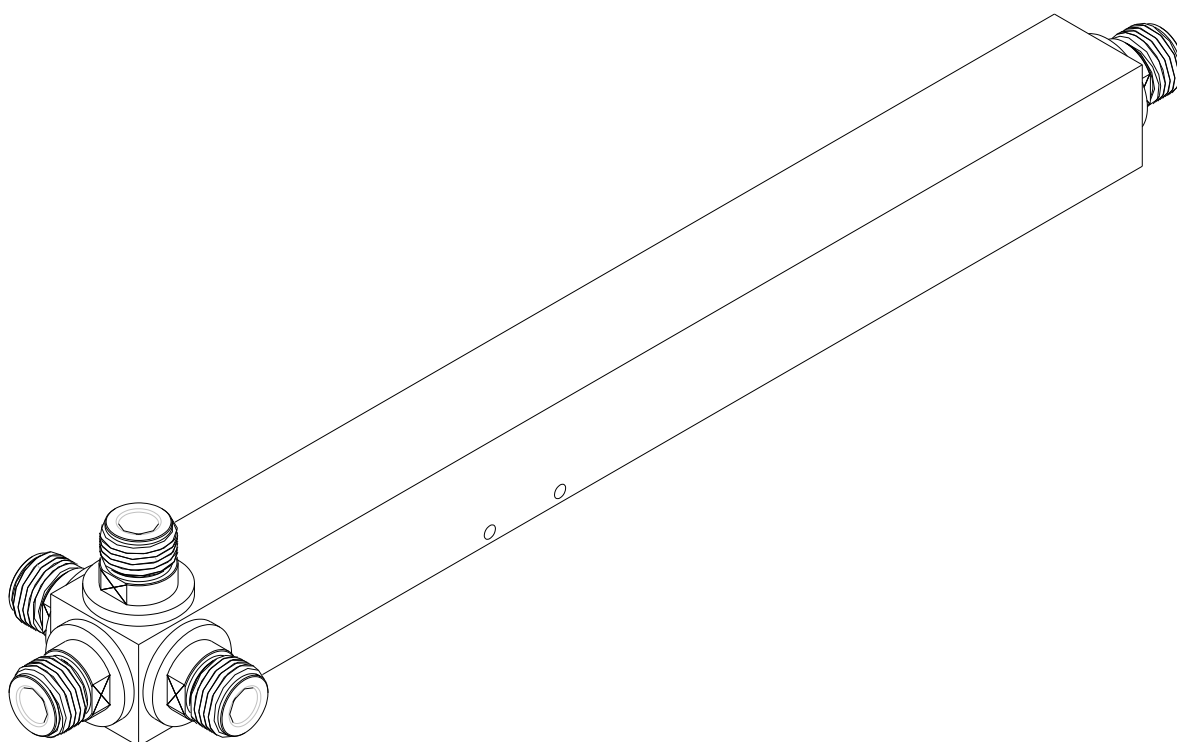
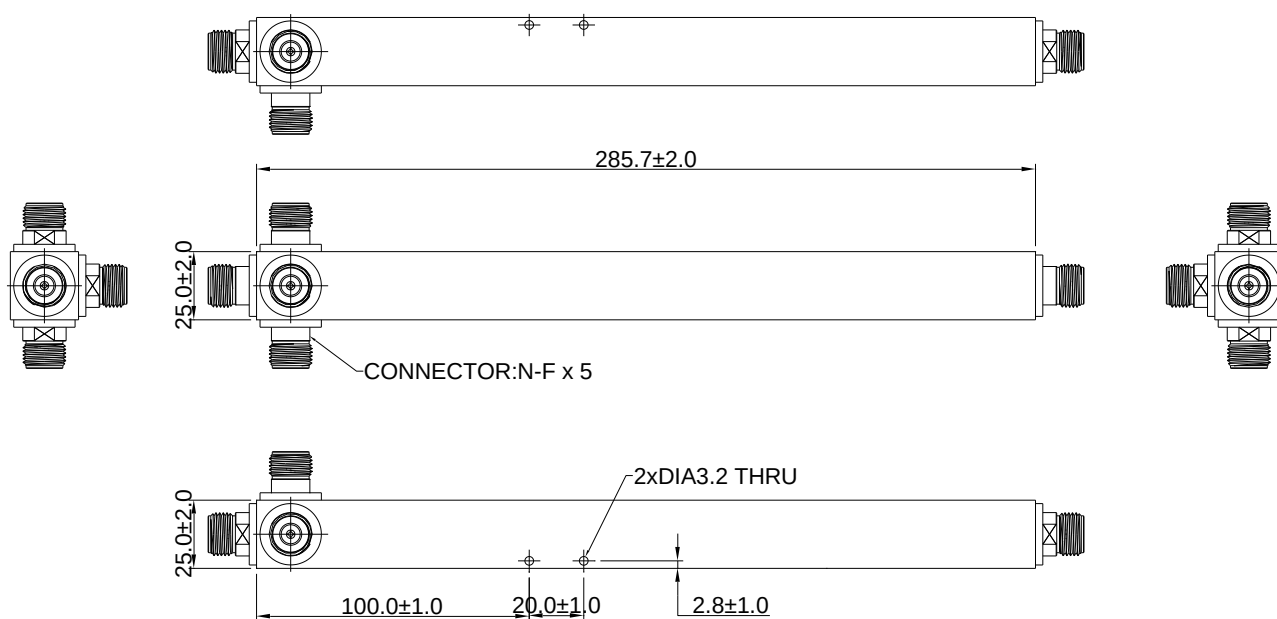
Reactive Splitter Combiners

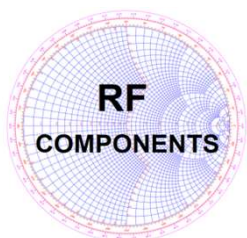
RFSC550-6000-X-NF

550 MHz - 6000 MHz, N Type Female, 2, 3 and 4 Way

LOW PIM SERIES

Outline for 4 Way Splitter, N female





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Reactive Splitter Combiners

RFSC550-6000-X-DINF

550 MHz - 6000 MHz, 7/16 DIN Female, 2, 3 and 4 Way

LOW PIM SERIES

ELECTRICAL SPECIFICATION

Model No.	RFSC550-6000-2-DINF	RFSC550-6000-3-DINF	RFSC-550-6000-4-DINF
Splitter	2way	3way	4way
Frequency	550-6000MHz		
Insertion loss	3dB	dB	6 dB
Return Loss	17.7 dB min		
Split loss	$\leq 0.3\text{dB}$	$\leq 0.6\text{ dB}$	$\leq 1\text{ dB}$
Power handling	300W CW max		
IMD@2*43dBm(900 MHz, 1800MHz, 3500MHz)	158 dBc typ., 155dBc min		
Impedance	50 Ω		

MECHANICAL SPECIFICATION

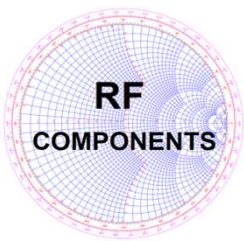
RF Connectors	7/16 DIN Female on All Ports
RF Connectors Configuration	See outline
Weight	1.0 Kg max
Dimensions	See outline
Outside finish	Powder Coating
Product Configuration	Single unit
Mounting option	Screws
Mounting orientation	Any
Ground screw	N/A

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-CORE
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ENVIRONMENTAL SPECIFICATION

Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-40°C to +85°C
Relative humidity	95% max
IP Class	IP65 for indoor or outdoor



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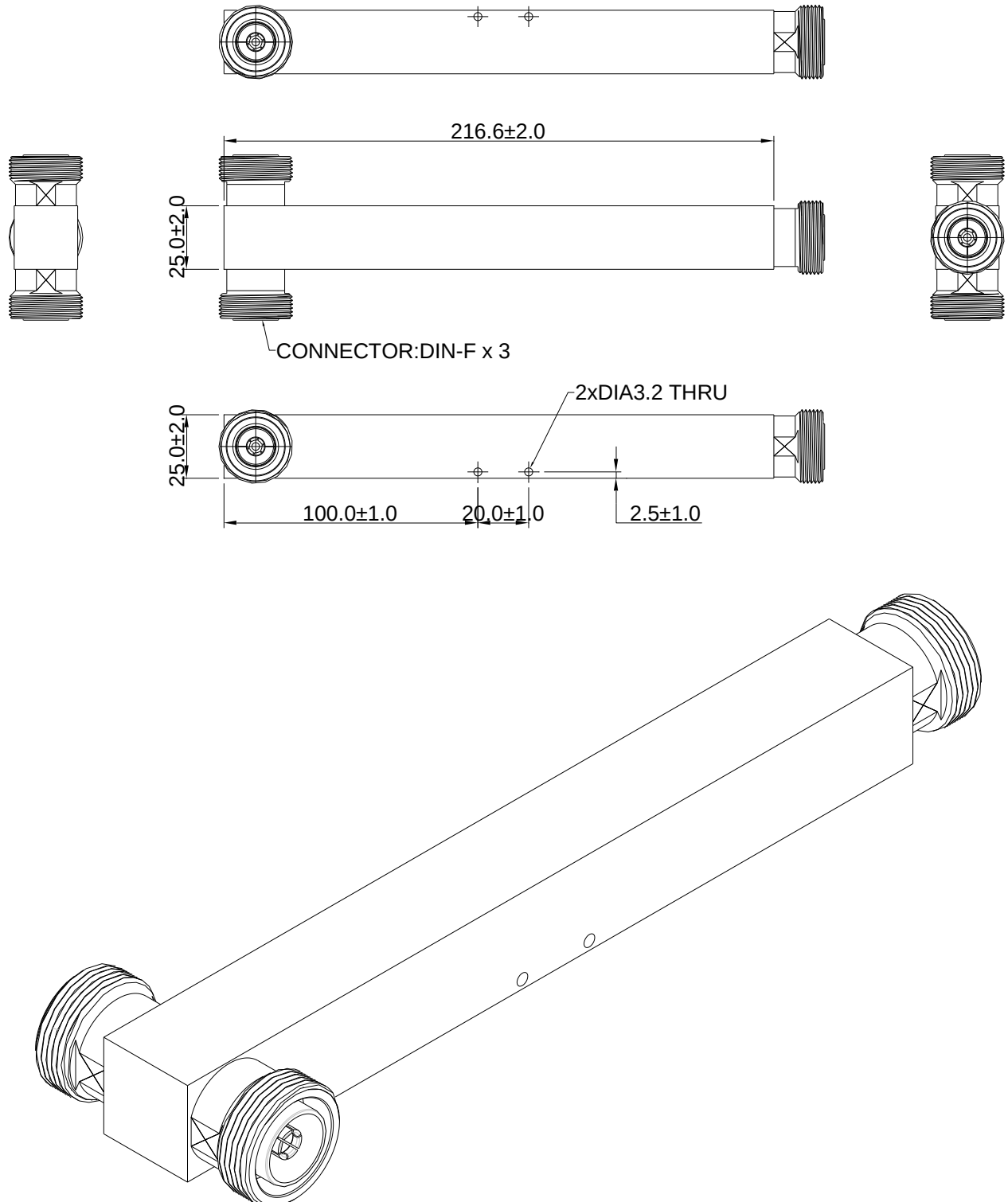
Reactive Splitter Combiners

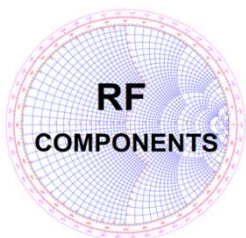
RFSC550-6000-X-DINF

550 MHz - 6000 MHz, 7/16 DIN Female, 2, 3 and 4 Way

LOW PIM SERIES

Outline for 2 Way Splitter, 7/16 Din female





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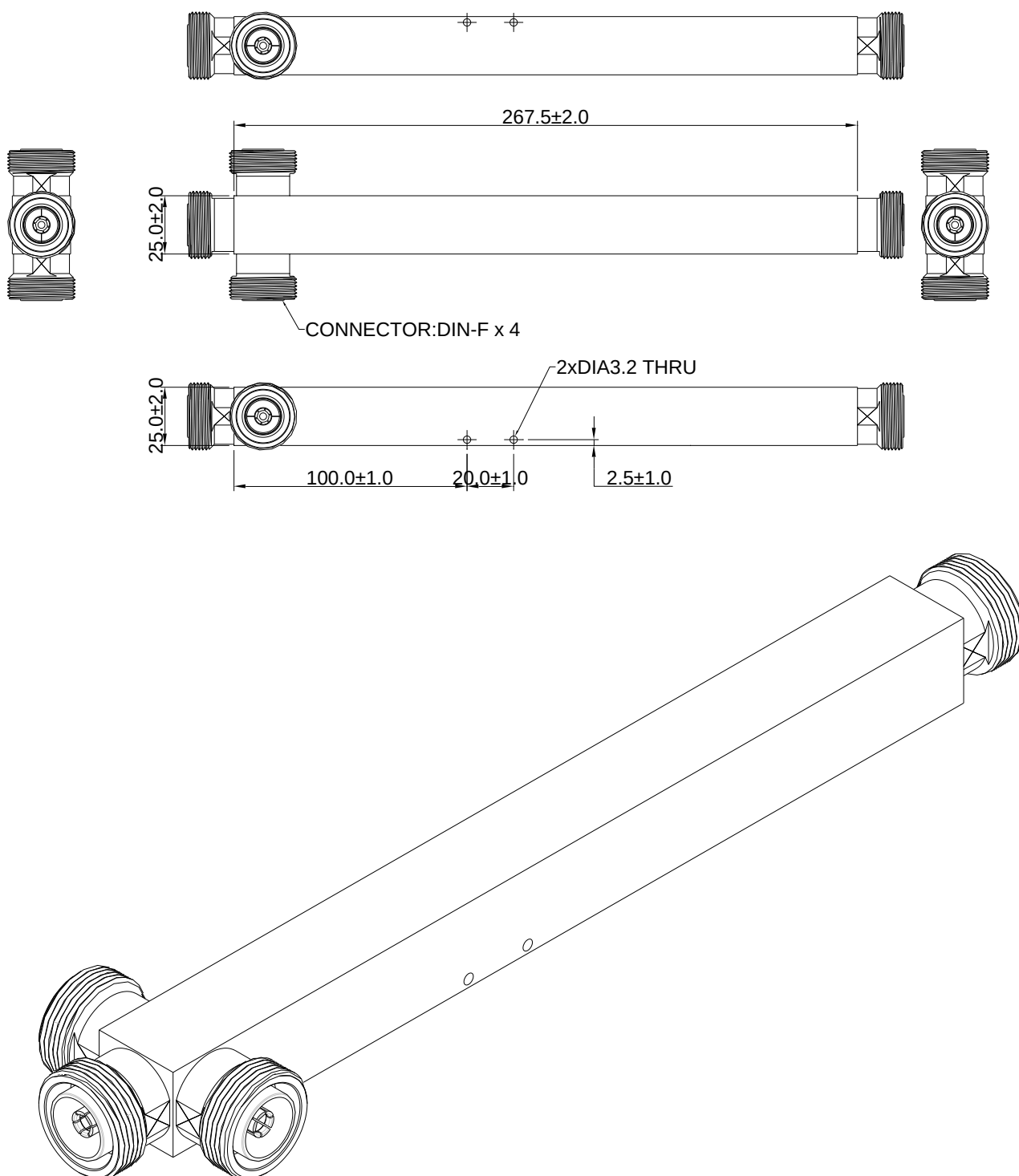
Reactive Splitter Combiners

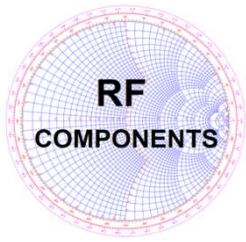
RFSC550-6000-X-DINF

550 MHz - 6000 MHz, 7/16 DIN Female, 2, 3 and 4 Way

LOW PIM SERIES

Outline for 3 Way Splitter, 7/16 Din female





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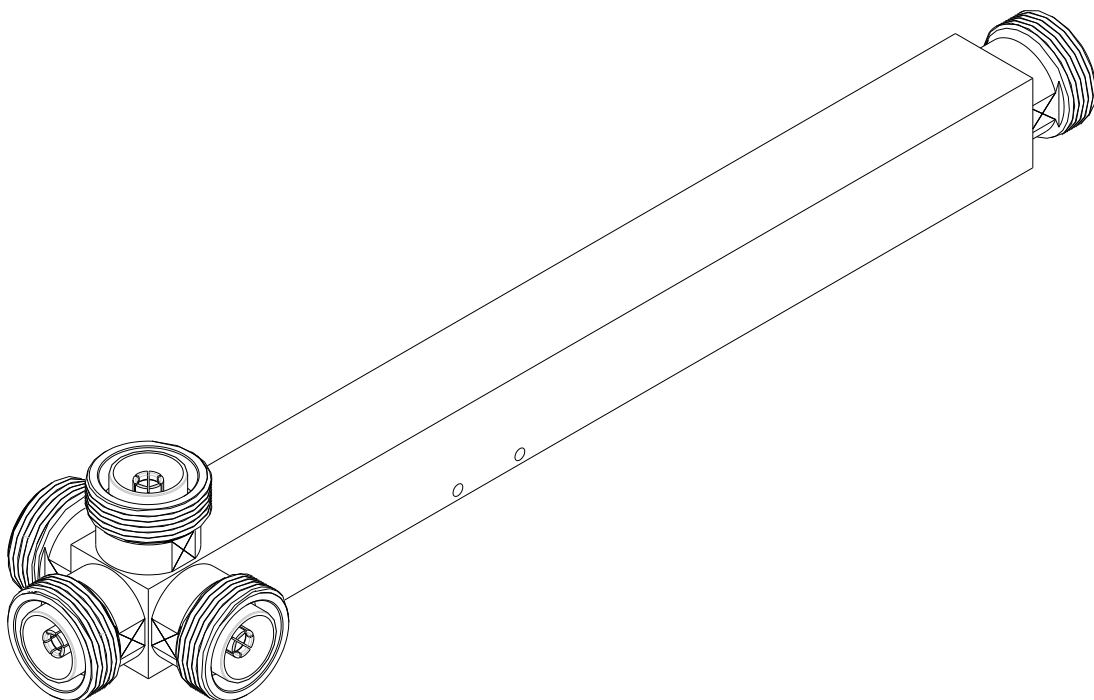
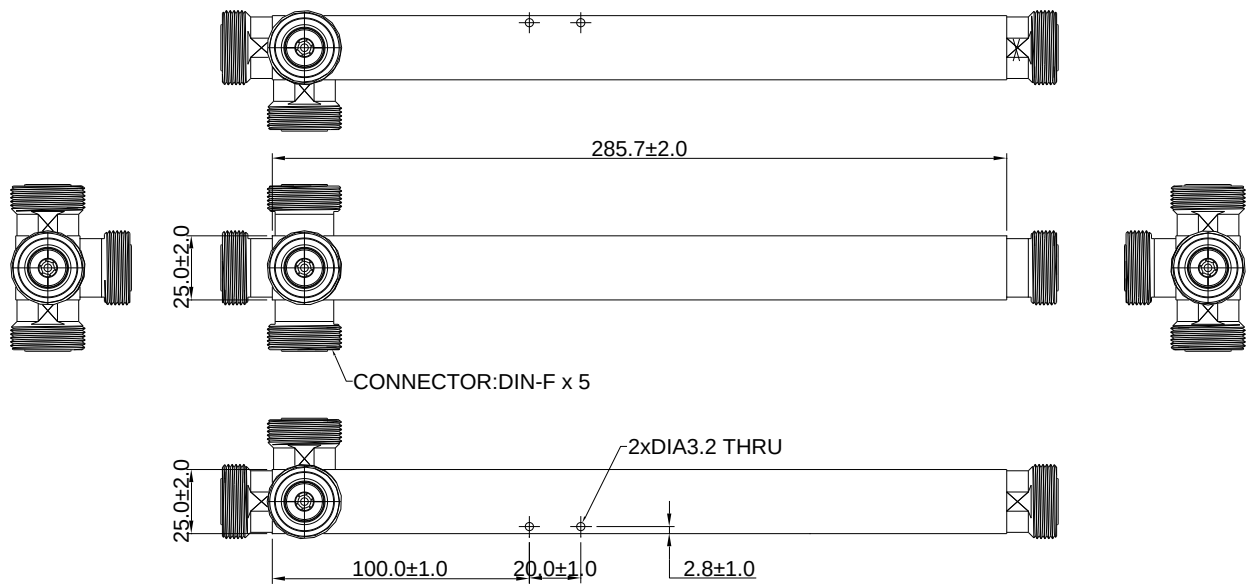
Reactive Splitter Combiners

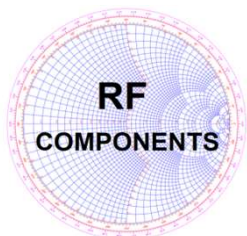
RFSC550-6000-X-DINF

550 MHz - 6000 MHz, 7/16 DIN Female, 2, 3 and 4 Way

LOW PIM SERIES

Outline for 4 Way Splitter, 7/16 Din female





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Reactive Splitter Combiners

RFSC550-6000-X-43F

550 MHz - 6000 MHz, 4.3-10 Female, 2, 3 and 4 Way

LOW PIM SERIES

ELECTRICAL SPECIFICATION

Model No.	RFSC550-6000-2-43F	RFSC550-6000-3-43F	RFSC-550-6000-4-43F
Splitter	2way	3way	4way
Frequency	550-6000MHz		
Insertion loss	3dB	dB	6 dB
Return Loss	17.7 dB min		
Split loss	$\leq 0.3\text{dB}$	$\leq 0.6\text{ dB}$	$\leq 1\text{ dB}$
Power handling	300W CW max		
IMD@2*43dBm(900 MHz, 1800MHz, 3500MHz)	158 dBc typ., 155dBc min		
Impedance	50 Ω		

MECHANICAL SPECIFICATION

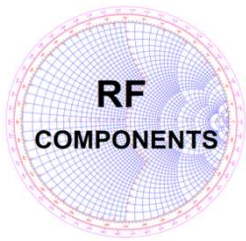
RF Connectors	4.3-10 Female on All Ports
RF Connectors Configuration	See outline
Weight	1.0 Kg max
Dimensions	See outline
Outside finish	Powder Coating
Product Configuration	Single unit
Mounting option	Screws
Mounting orientation	Any
Ground screw	N/A

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-CORE
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ENVIRONMENTAL SPECIFICATION

Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-40°C to +85°C
Relative humidity	95% max
IP Class	IP65 for indoor or outdoor



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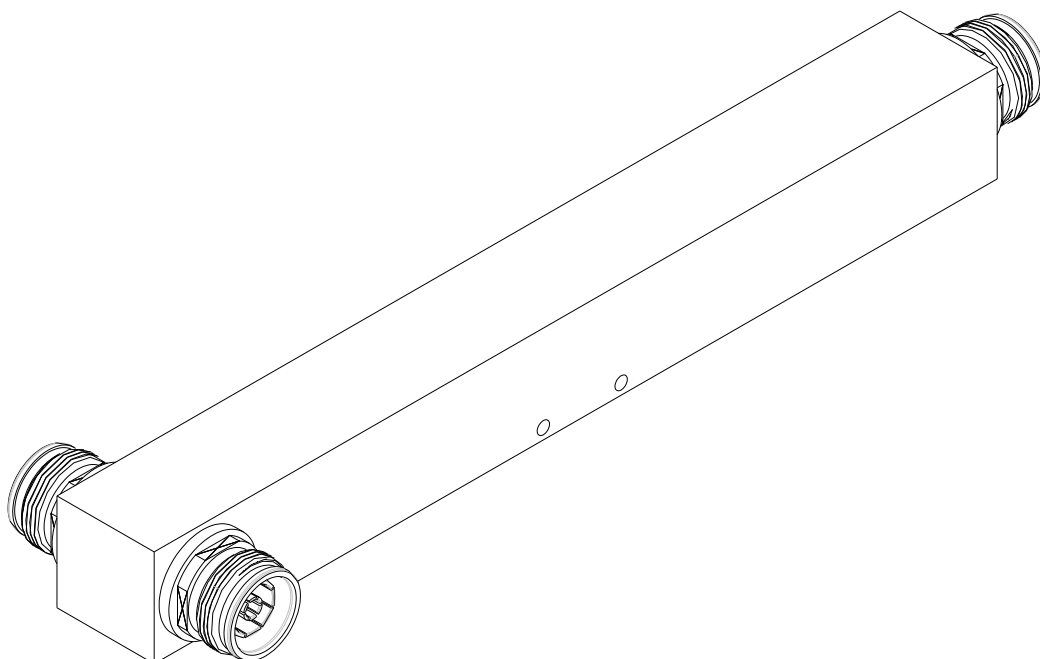
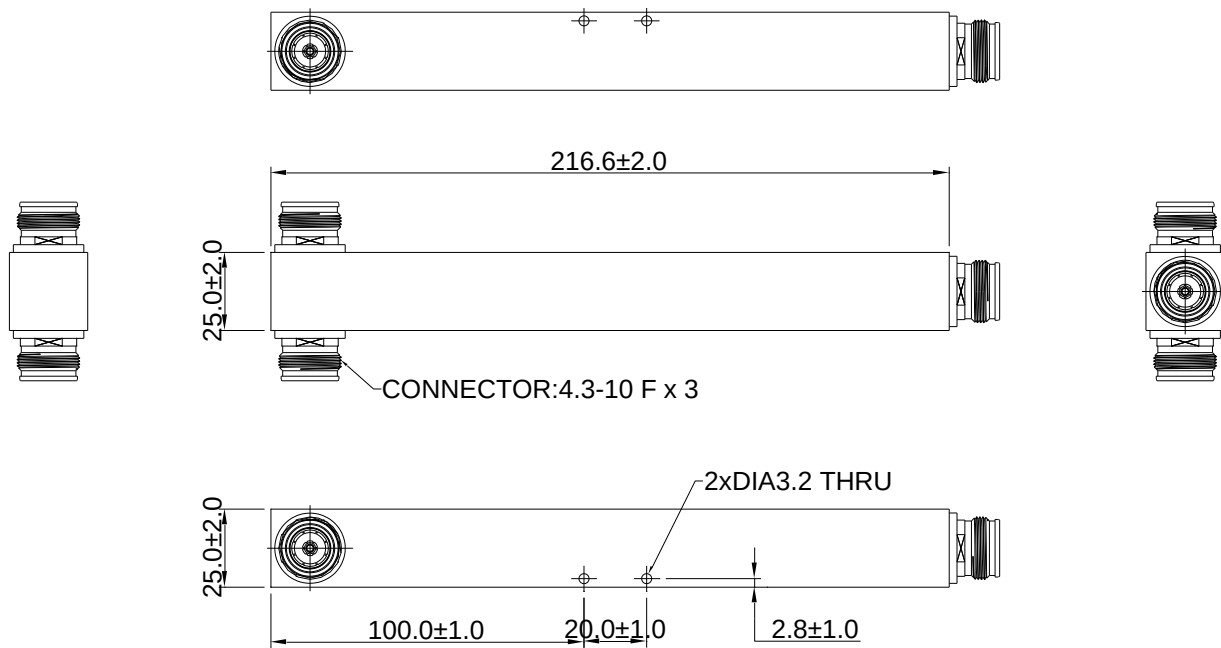
Reactive Splitter Combiners

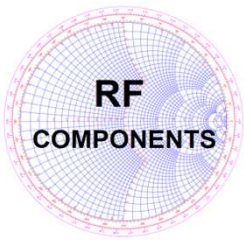
RFSC550-6000-X-43F

550 MHz - 6000 MHz, 4.3-10 Female, 2, 3 and 4 Way

LOW PIM SERIES

Outline for 2 Way Splitter, 4310 female





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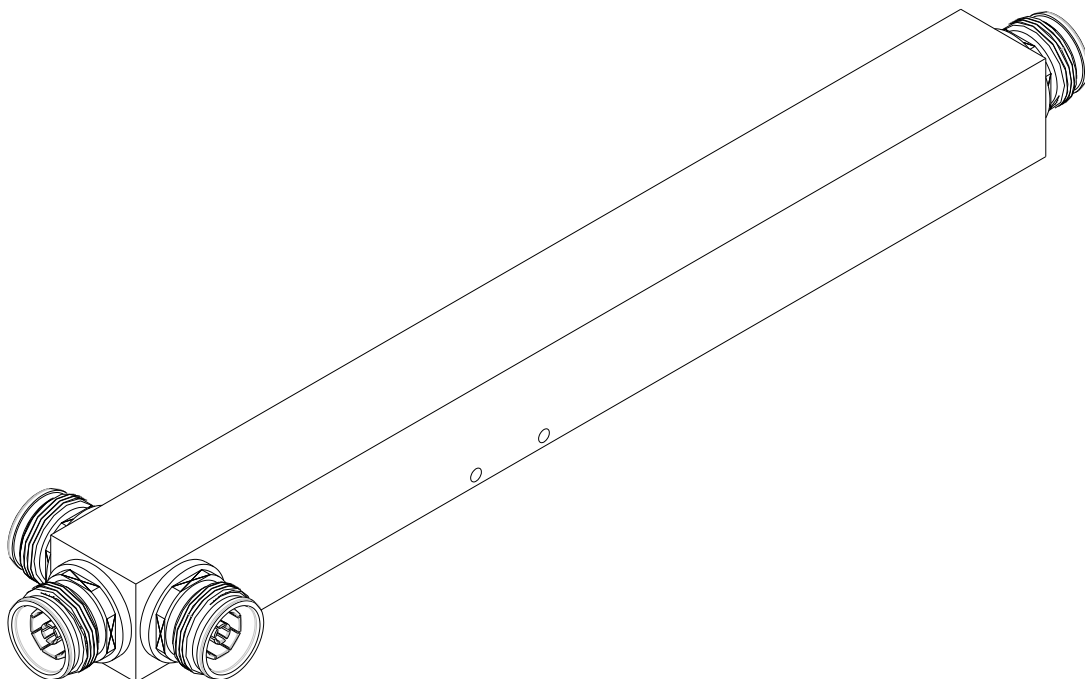
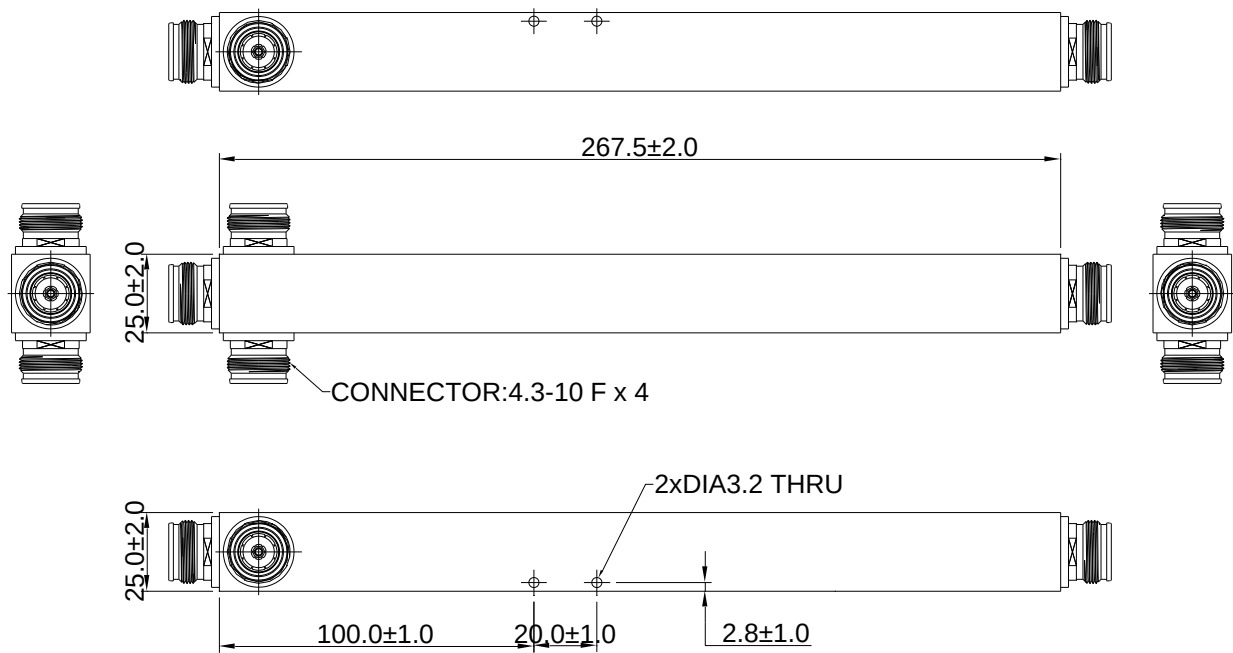
Reactive Splitter Combiners

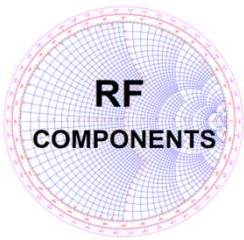
RFSC550-6000-X-43F

550 MHz - 6000 MHz, 4.3-10 Female, 2, 3 and 4 Way

LOW PIM SERIES

Outline for 3 Way Splitter, 4310 female





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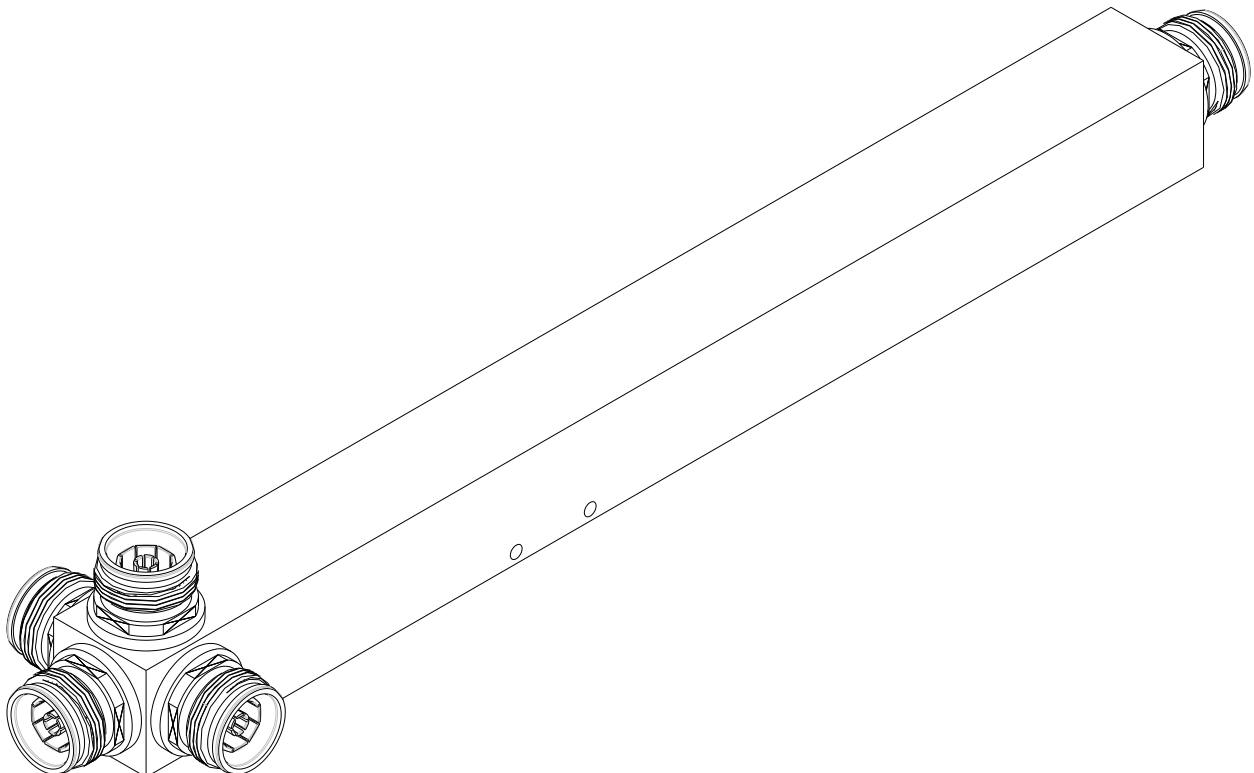
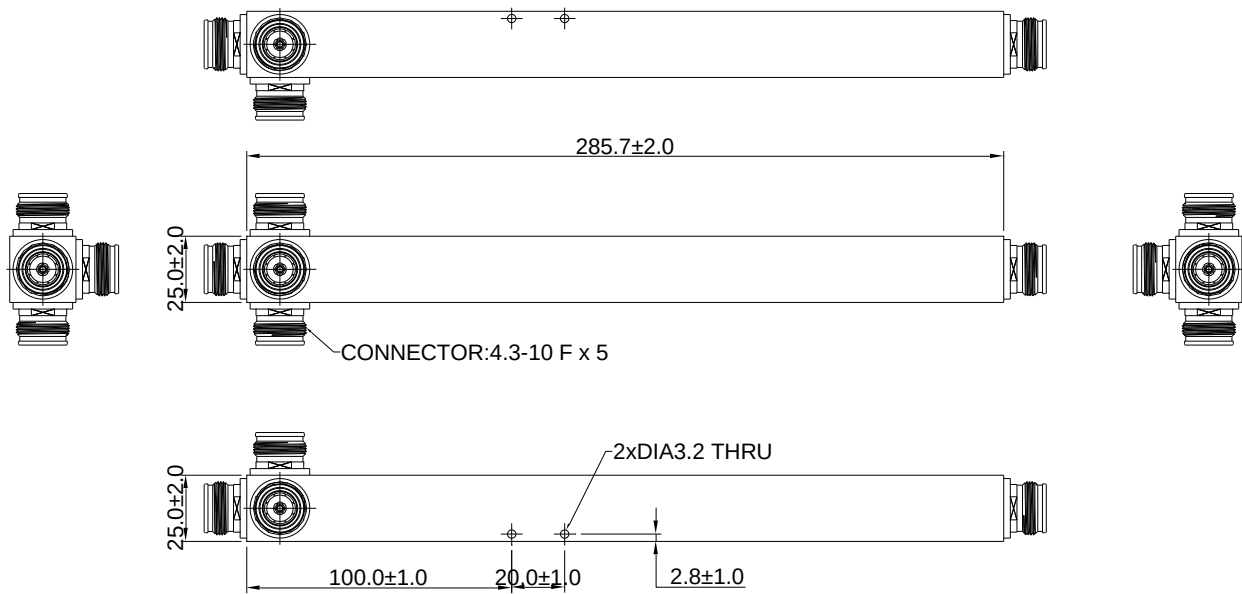
Reactive Splitter Combiners

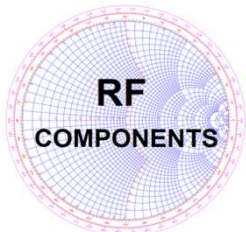
RFSC550-6000-X-43F

550 MHz - 6000 MHz, 4.3-10 Female, 2, 3 and 4 Way

LOW PIM SERIES

Outline for 4 Way Splitter, 4310 female





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Wilkinson Combiners, 2, 3 & 4 Way

RFWC-500-3800-XX-43

500 - 3800 MHz, 4.3-10 Wilkinson Combiners

LOW PIM SERIES

Rev 2

ELECTRICAL SPECIFICATION

Model No.	RFWC-500-3800-02-43	RFWC-500-3800-03-43	RFWC-500-3800-04-43
Splitter	2way	3way	4way
Frequency	500-3800MHz		
Insertion loss	3dB	4.8 dB	6 dB
Return Loss	17.7 dB min		
Split loss	≤ 0.5dB	≤ 0.7 dB	≤0.7dB
Power handling	300W CW max		
IMD@2*43dBm(900, 1800, 3500)	158 dBc typ. 155dBc min(4310 female)		
Impedance	50Ω		

MECHANICAL SPECIFICATION

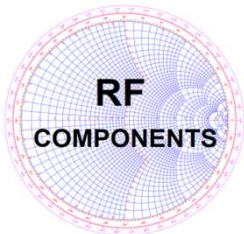
RF Connectors	4.3-10 Female for all ports per order
RF Connectors Configuration	See outline
Weight	1.0 Kg max
Dimensions	See outline
Outside finish	Powder coating
Product Configuration	Single unit
Mounting option	Screws
Mounting orientation	Any
Ground screw	N/A

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-CORE
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ENVIRONMENTAL SPECIFICATION

Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-40°C to +85°C
Relative humidity	95% max
IP Class	IP65 for indoor or outdoor



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Wilkinson Combiners, 2, 3 & 4 Way

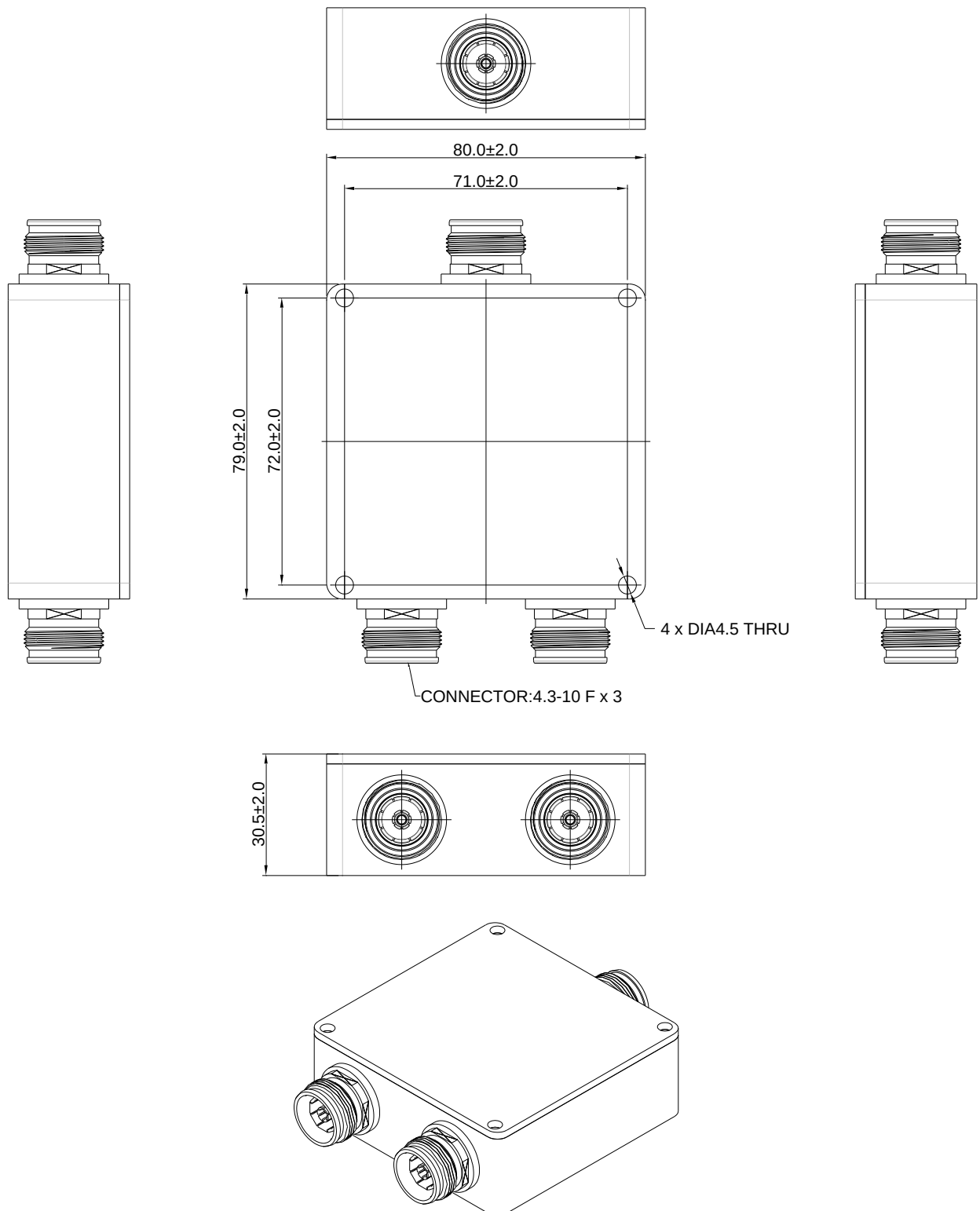
RFWC-500-3800-XX-43

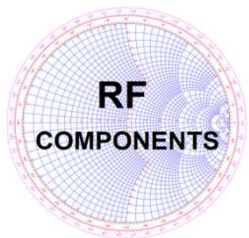
500 - 3800 MHz, 4.3-10 Wilkinson Combiners

LOW PIM SERIES

Rev 2

Outline for 2 Way, 4310 female





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Wilkinson Combiners, 2, 3 & 4 Way

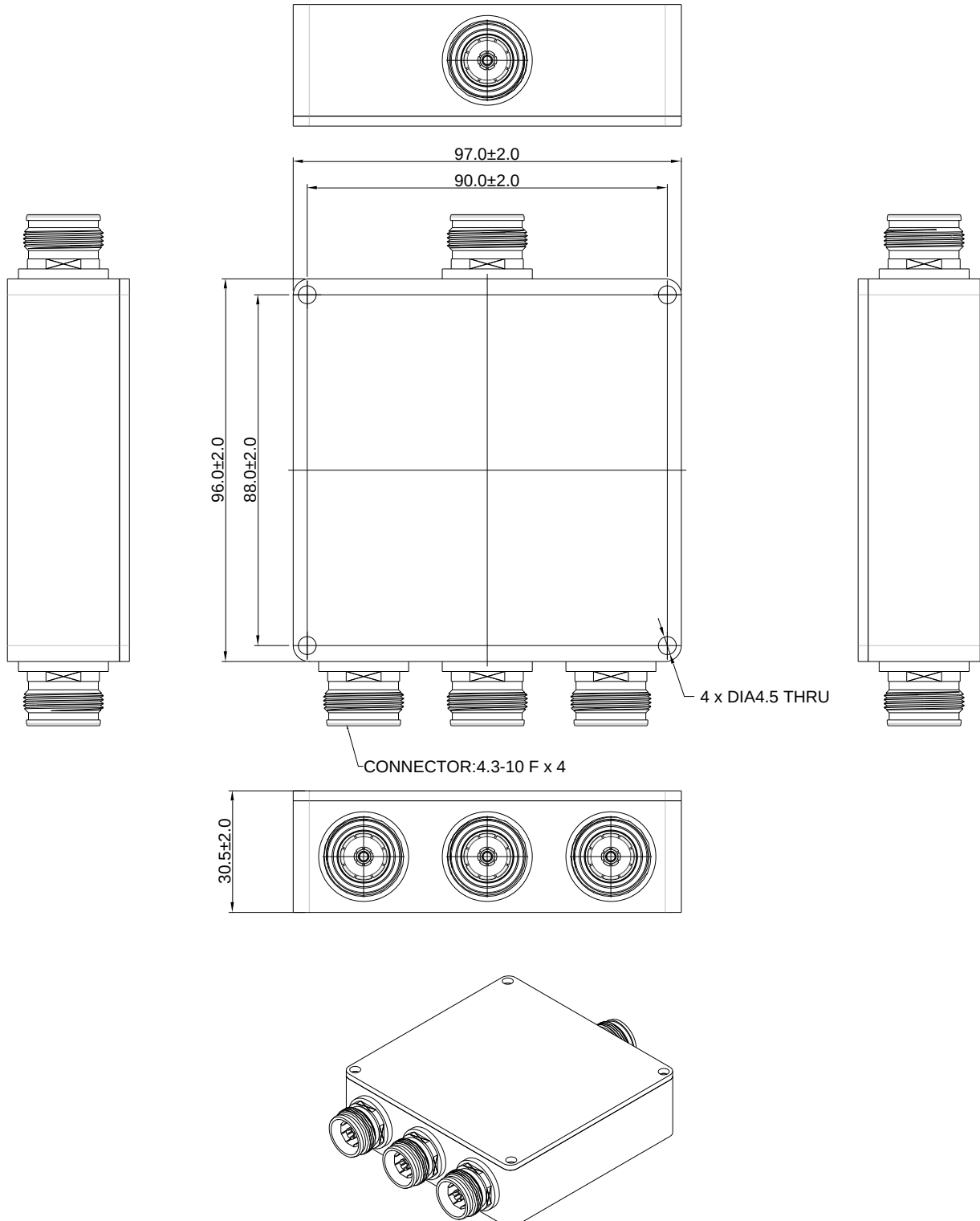
RFWC-500-3800-XX-43

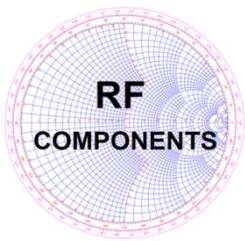
500 - 3800 MHz, 4.3-10 Wilkinson Combiners

LOW PIM SERIES

Rev 2

Outline for 3 Way, 4310 female





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Wilkinson Combiners, 2, 3 & 4 Way

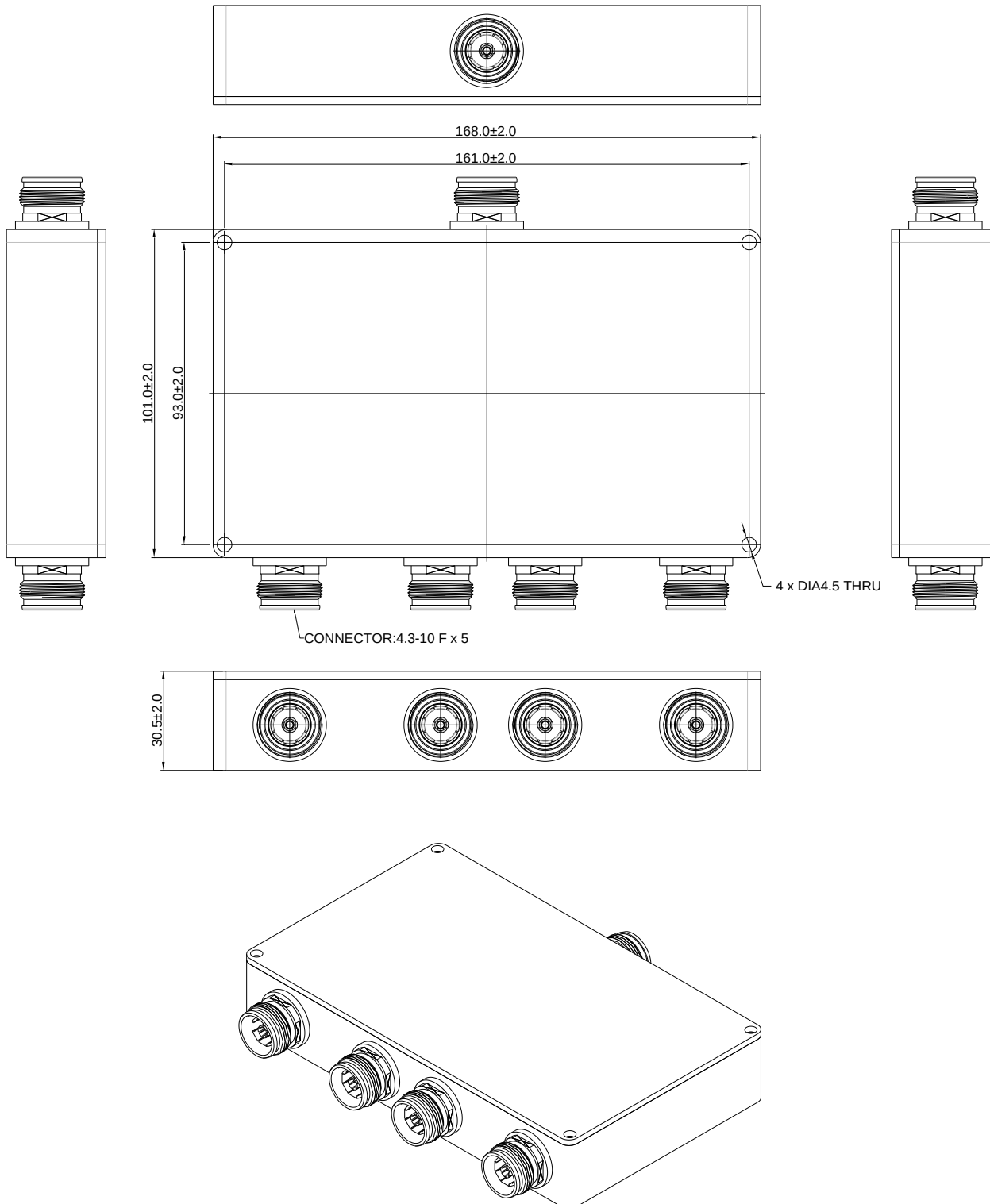
RFWC-500-3800-XX-43

500 - 3800 MHz, 4.3-10 Wilkinson Combiners

LOW PIM SERIES

Rev 2

Outline for 4 Way, 4310 female



LOW PIM Cable Load

Part Number **RFCL06-4310M-100**

600 - 5850 MHz, 100 Watt, 4.3-10 Male Cable Load

Rev 2

ELECTRICAL SPECIFICATION

Pass Band	600-5850 MHz
Power handling	100 W CW max
In/out Impedance	50 Ω
Return loss	18 dB min

PIM Requirement

IMD in RX band, COM port (2 CW tones +43 dBm each) Performed at 900MHz, 1800MHz and 3500MHz bands	158 dBc typ., 155 dBc min
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MECHANICAL SPECIFICATION

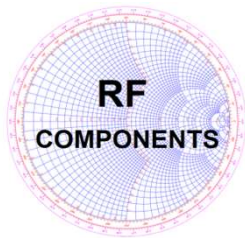
RF Connectors	4.3-10 male
Cable type	RG402
Weight	2.5 Kg max
Dimensions without connectors and mounting brackets	110*110*70 mm typ.
Outside finish	Black or Aluminum natural color
Product Configuration	Single unit

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-CORE
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ENVIRONMENTAL SPECIFICATION

Temperature Range	-10 to +60° C
IP Class	IP63 for indoor
EMC / EMI	NEBS GR-1089-CORE and EN 55022
Safety	EN 60950
Corrosion resistance	N/A



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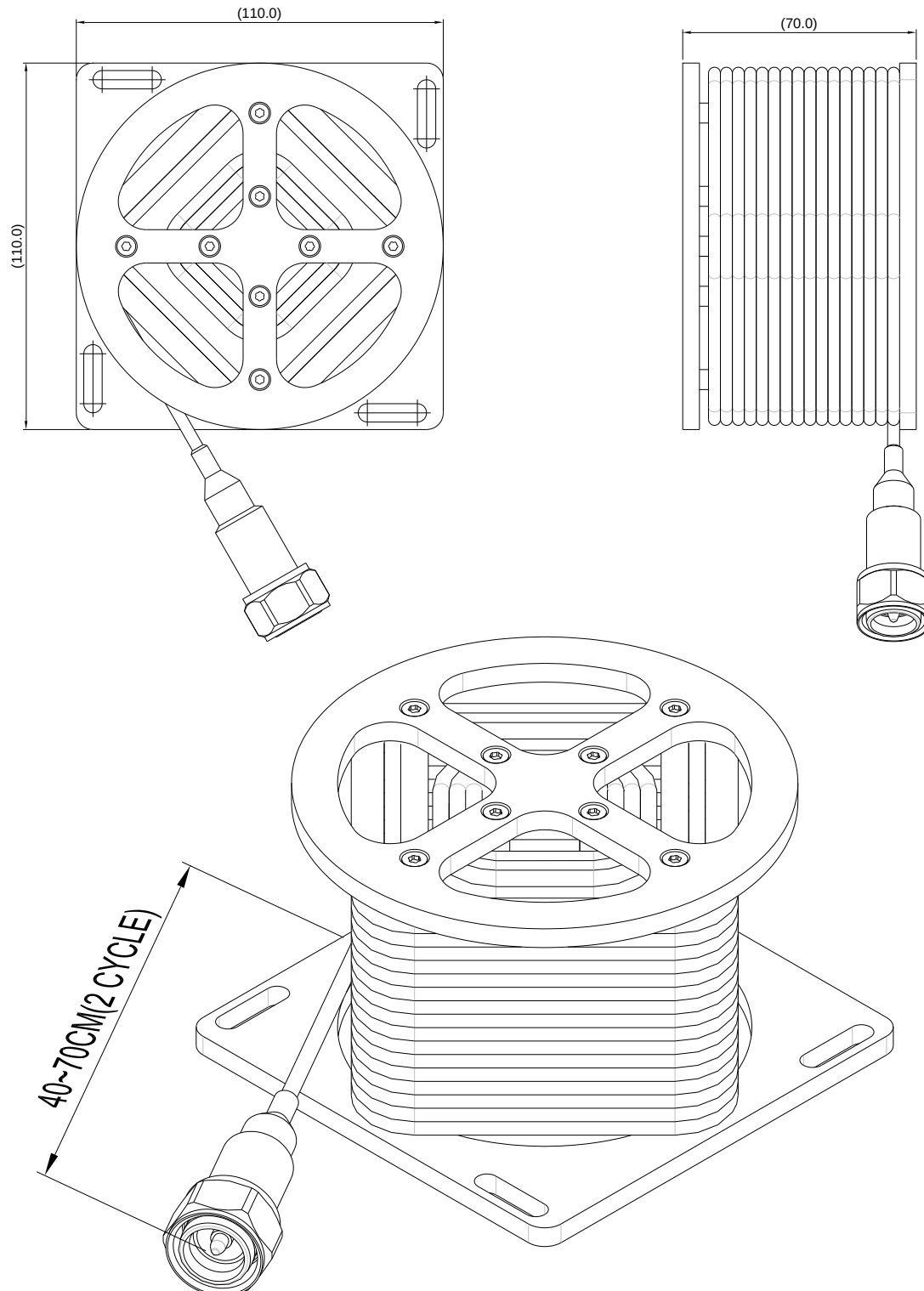
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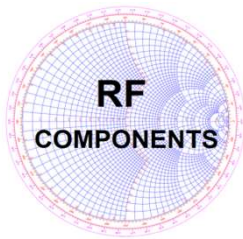
LOW PIM Cable Load

Part Number **RFCL06-4310M-100**

600 - 5850 MHz, 100 Watt, 4.3-10 Male Cable Load

Rev 2





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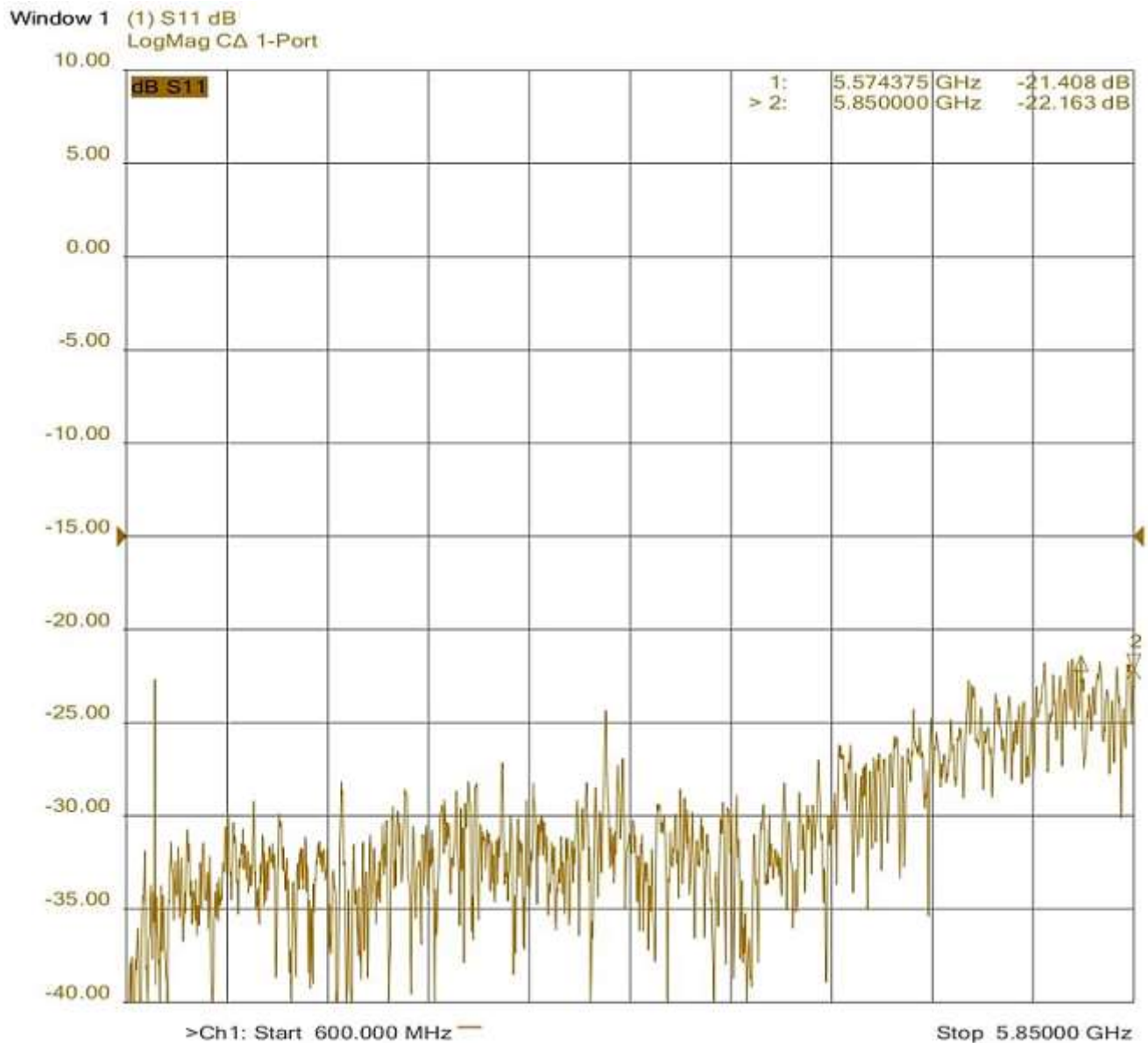
LOW PIM Cable Load

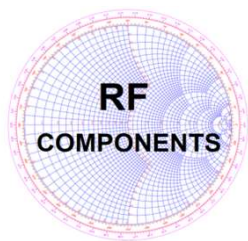
Part Number **RFCL06-4310M-100**

600 - 5850 MHz, 100 Watt, 4.3-10 Male Cable Load

Rev 2

RETURN LOSS SPECIFICATION





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LOW PIM Cable Load

RFCL06-4310XX-100 Series

600 - 5850 MHz, 100 Watt, 4.3-10 Mounted Connector Cable Load

Rev 2

ELECTRICAL SPECIFICATION

Pass Band	600-5850 MHz
Return loss	18 dB min
Power handling	100 W CW max
In/out Impedance	50 Ω
PIM Requirement	
IMD in RX band, COM port (2 CW tones +43 dBm each) Performed at 900MHz, 1800MHz and 3500MHz bands	158 dBc typ., 155 dBc min

MECHANICAL SPECIFICATION

RF Connectors	4.3-10 male or female
Cable type	RG402
Weight	2.0 Kg max
Dimensions without connectors and mounting brackets	110*110*70 mm typ.
Outside finish	Black or Aluminum natural color
Product Configuration	Single unit

PACKAGING SPECIFICATION

Applicable standard	NEBS GR-63-CORE
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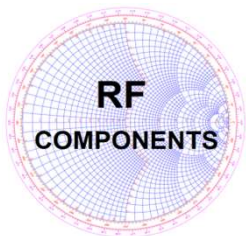
ENVIRONMENTAL SPECIFICATION

Temperature Range	-10 to +60° C
IP Class	IP63 for indoor
EMC / EMI	NEBS GR-1089-CORE and EN 55022
Safety	EN 60950
Corrosion resistance	N/A

Part Numbering RFCL06-4310**FM**-100

FM = 4.3-10 Female Mounted

MM = 4.3-10 Male Mounted



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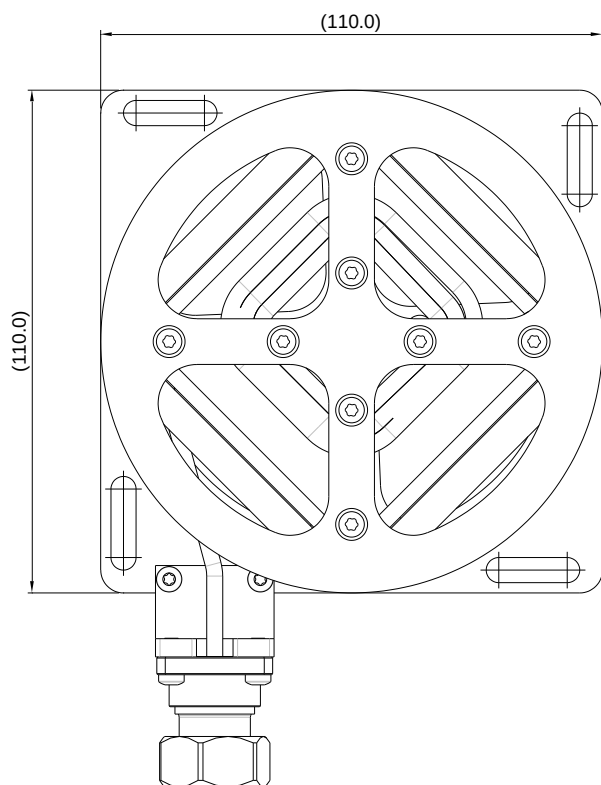
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LOW PIM Cable Load

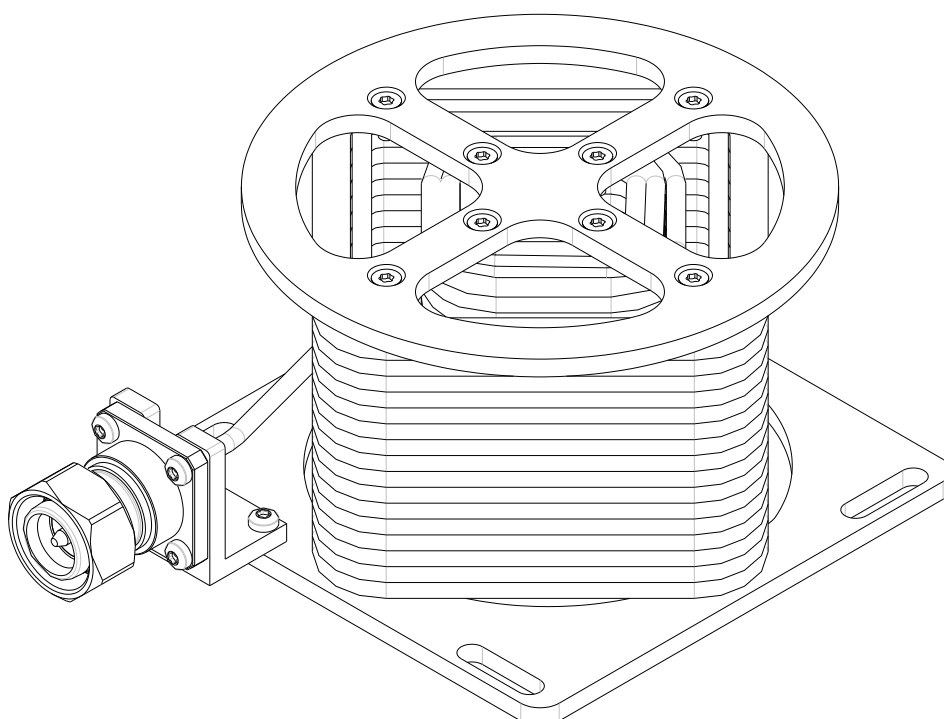
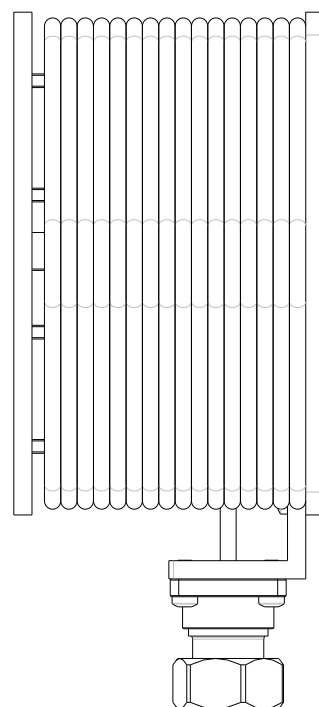
Part Number **RFCL06-4310MM-100**

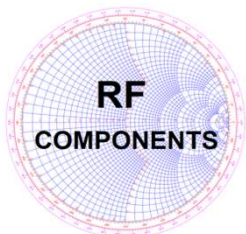
600 - 5850 MHz, 100 Watt, 4.3-10 Mounted Male Connector Cable Load

Rev 2



4.3-10 male connector





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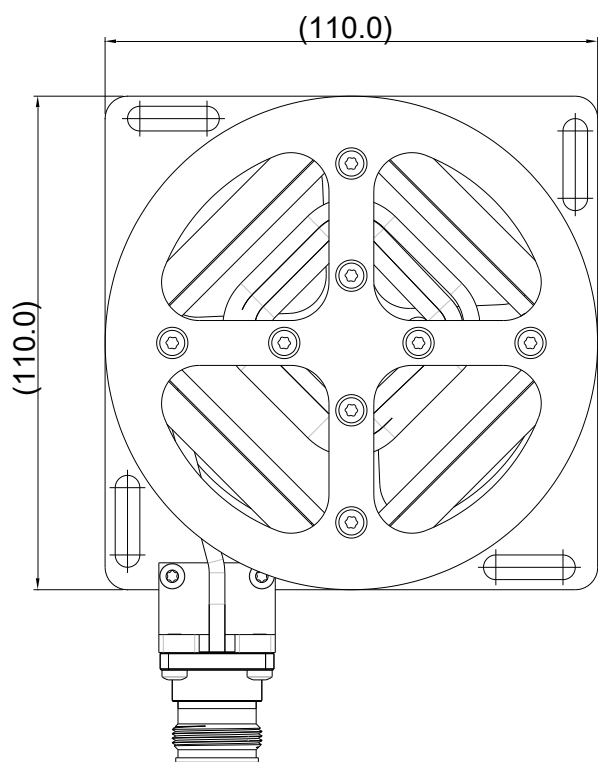
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LOW PIM Cable Load

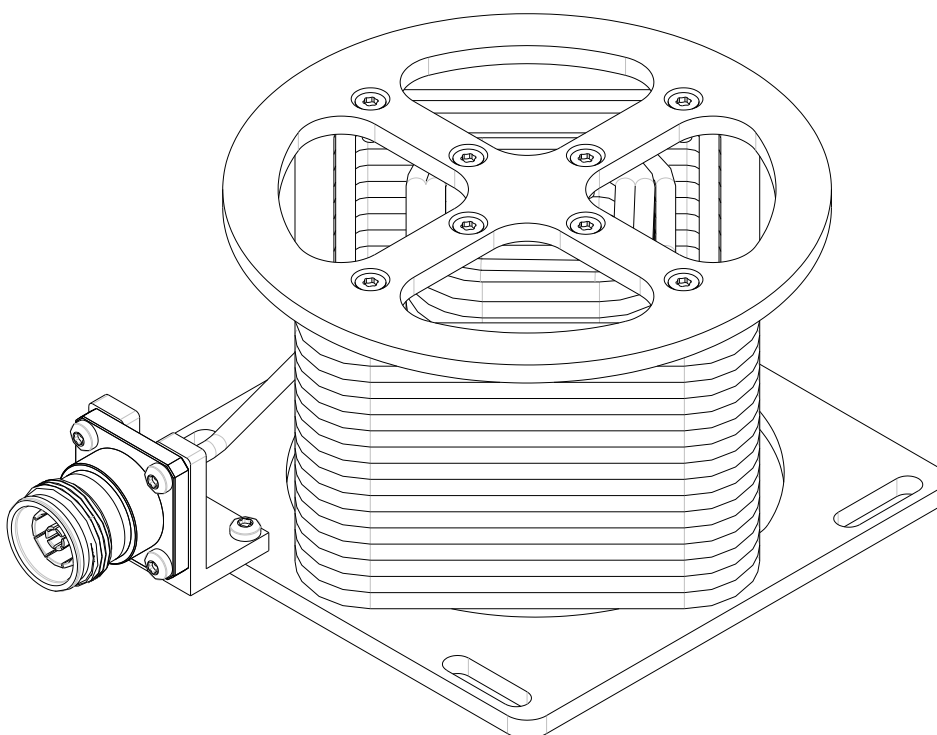
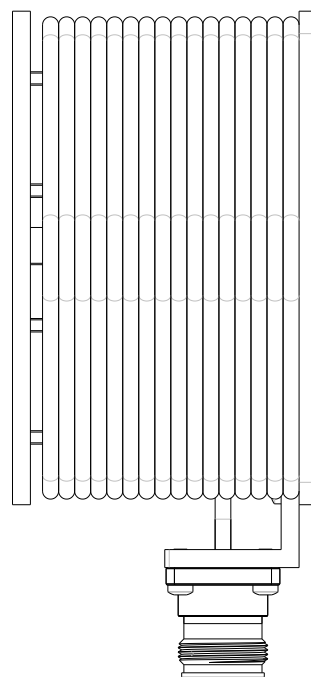
Part Number **RFCL06-4310FM-100**

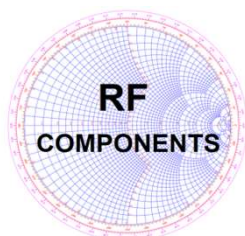
600 - 5850 MHz, 100 Watt, 4.3-10 Mounted Female Connector Cable Load

Rev 2



4.3-10 female connector



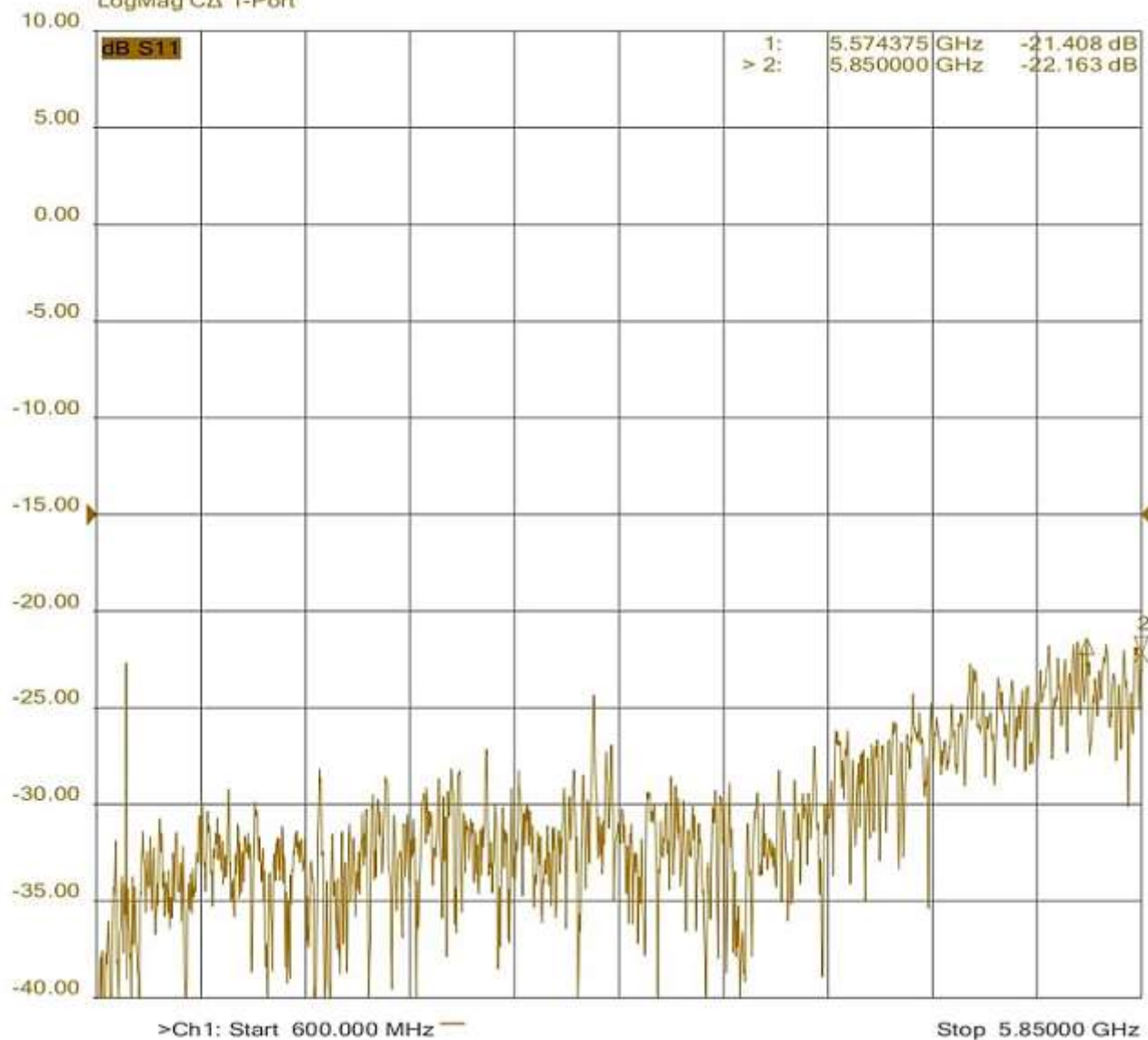


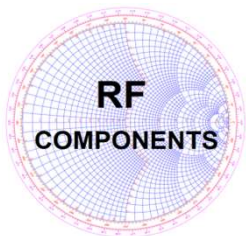
RFCOMPONENTS.COM.AU

LOW PIM Cable Load**RFCL06-4310XX-100 Series****600 - 5850 MHz, 100Watt, 4.3-10 Mounted Connector Cable Load**

Rev 2

RETURN LOSS SPECIFICATION

Window 1 (1) S11 dB
LogMag CA 1-Port

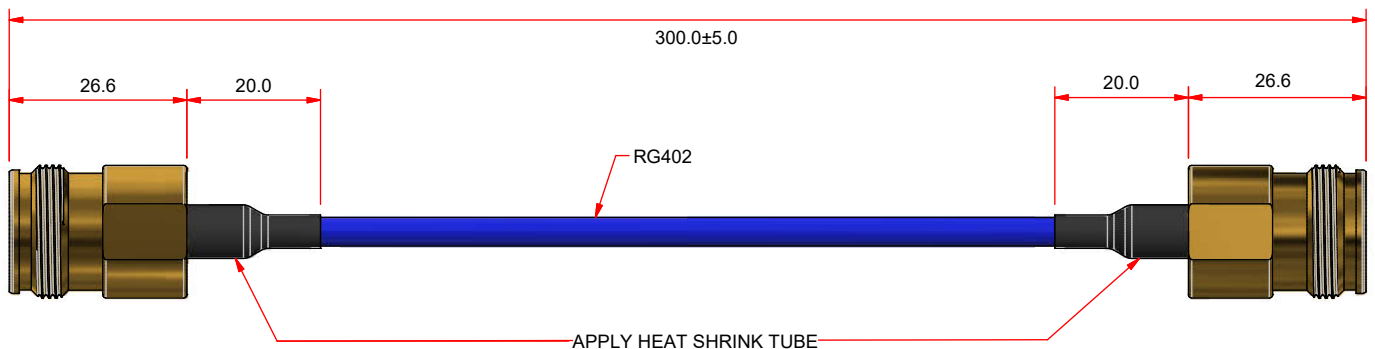
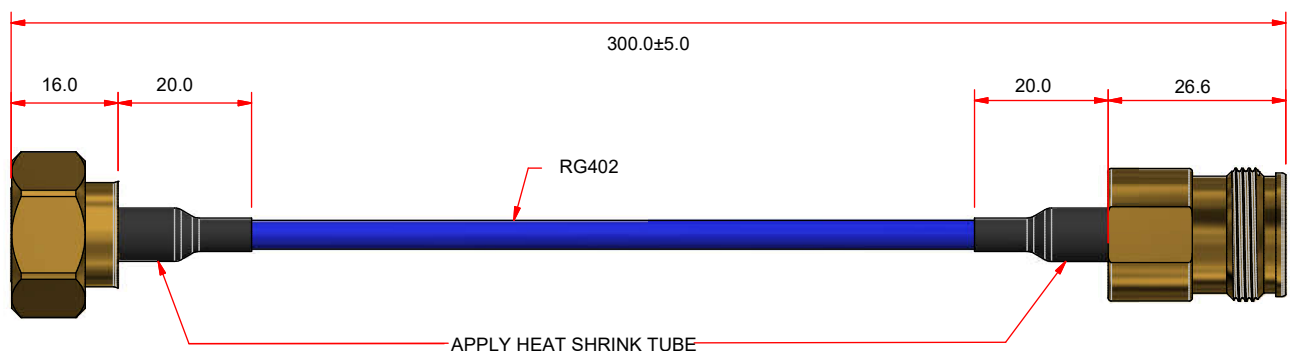
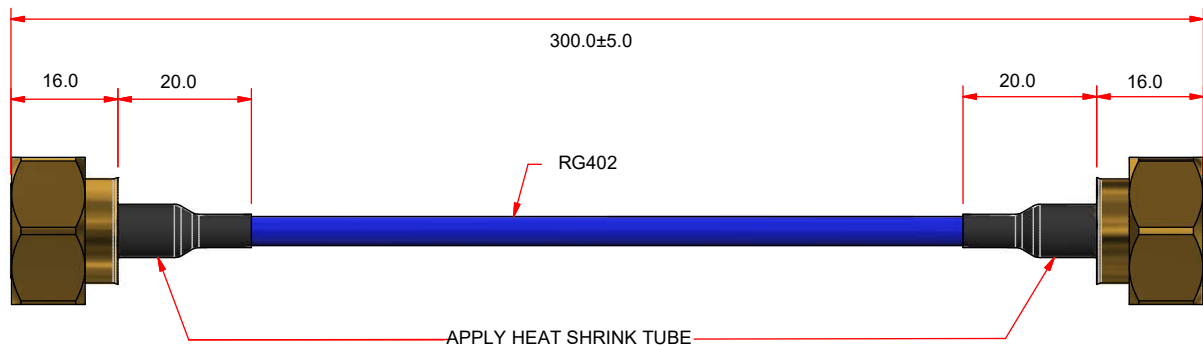


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Cable Load Accessories

RG402 Flexible Jumper Cables



CONNECTOR INTERFACE, IAW IEC 61169-54.

ELECTRICAL CHARACTERISTICS:

- CHARACTERISTIC IMPEDANCE: 50 OHMS NOMINAL
- FREQUENCY RANGE: 0 TO 6 GHz
- VSWR: 1.10 Max @ DC-3GHz
1.30 Max @ 3-6GHz
- IM PERFORMANCE: 158 dBc typ., 155 dBc MIN
2x43dBm (900MHz/1800MHz/3500MHz)
- TEMPERATURE RANGE: -40°C TO +125°C

MATERIAL AND SURFACES:

- MATERIAL:
- BODY: BRASS
- OUTER CONTACT: Spring Copper
- CENTER CONTACT: Spring Copper
- INSULATOR: VIRGIN PTFE PRE
- PLATING:
- BODY: CuSnZn 3um
- OUTER CONTACT: Ag 3um
- CENTER CONTACT: Ag 3um

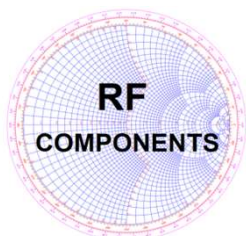
Part Numbering

RFCA-43M43M-405-XXX

M=Male 4.3-10 F = Female 4.3-10

M=Male 4.3-10 F = Female 4.3-10

XXX= Length Cm Example 009 = 9 Cm, 050 = 50 Cm



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SMA Attenuators

RFAB06S2 Series

DC - 6000 MHz, 2 Watt, SMA Attenuators, 1 - 60 dB

Rev 2

Electrical

Impedance	50 ohm						
Frequency Range	DC-6 GHz						
VSWR	1.25 max						
Input Avg Power	2W@ 25°C ambient, derating linearly to 0.2W at 100°C						
Peak Power	250W (5 micro-sec pulse width, 0.4% duty cycle)						
Direction	Bidirectional, SMA female to SMA male (other configurations available)						
Attenuation(dB)	1-6	7-12	13-20	21-30	40	50	60
Accuracy(dB)	±0.4	±0.5	±0.6	±0.8	±0.8	±0.8	±0.9

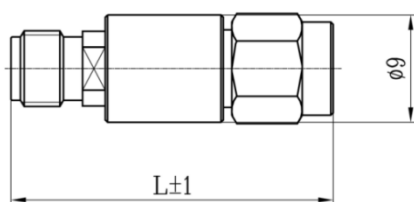
Mechanical

Connector Body	Passivated stainless steel
Heat Sink	N/A
Center Contact	Gold plated beryllium copper/brass
Net Weight	About 6 g

Environmental

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C
RoHS	Compliant
Temperature Coefficient	<0.0004 dB/dB/°C

Dimensions(mm)



1-12 dB: L=24
13-30 dB: L=26.6
40/50/60 dB: L=30

Notes

1.Customized dB values, outlines and optimal accuracy/VSWR available.

Model Description

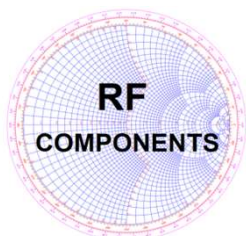
RFAB06S2-XX-C

1.XX for dB value: 06=6dB,30=30dB

2.Code for connector configuration:

A=female for two ends; B=male for two ends

C=female for one end and male for the other.



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SMA Attenuators

RFAB18S2-XX-C

DC - 18 GHz, SMA, 2 Watt Attenuators

Rev 2

Electrical

Impedance	50 ohm
Frequency Range	DC-18 GHz
VSWR	1.3 max
Input Avg Power	2W@ 25°C ambient, derating linearly to 0.2W at 100°C
Peak Power	250W (5 micro-sec pulse width, 0.4% duty cycle)
Direction	Bidirectional, SMA female to SMA male (other configurations available)

Attenuation(dB)	0	1-6	7-12	13-20	21-30	40	50	60
Accuracy(dB)	0/+0.5	±0.4	±0.5	±0.8	±1.0	±1.2	±1.5	±1.5

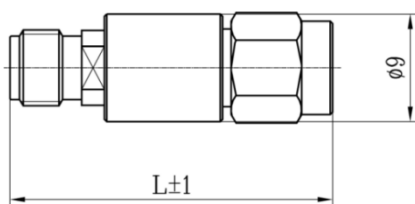
Mechanical

Connector Body	Passivated stainless steel
Heat Sink	N/A
Center Contact	Gold plated beryllium copper/brass
Net Weight	About 6 g

Environmental

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C
RoHS	Compliant
Temperature Coefficient	<0.0004 dB/dB/°C

Dimensions(mm)



0-12 dB: L=24

13-30 dB: L=26.6

40/50/60 dB: L=30

Notes

1.Customized dB values, outlines and optimal accuracy/VSWR available.

Model Description

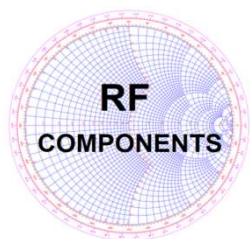
RFAB18S2-XX-C

1.XX for dB value: 06=6dB,30=30dB

2.Code for connector configuration:

A=female for two ends; B=male for two ends

C=female for one end and male for the other.



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SMA Attenuators

RFAB06S5 Series

DC - 6000 MHz, 2 Watt, SMA Attenuators, 1 - 50 dB

Rev 2

Electrical

Impedance	50 ohm		
Frequency Range	DC-6 GHz		
VSWR	1.25 max		
Input Avg Power	5W@ 25°C ambient, derating linearly to 0.5W at 100°C		
Peak Power	500W (5 micro-sec pulse width, 0.5% duty cycle)		
Direction	Bidirectional, SMA female to SMA male (other configurations available)		
Attenuation(dB)	1-10	11-20	21-30
Accuracy(dB)	±0.5	±0.6	±0.8

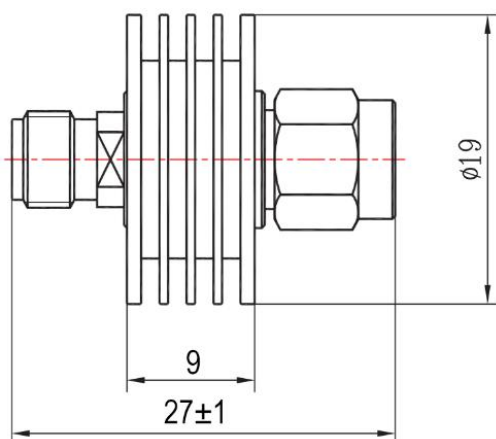
Mechanical

Connector Body	Passivated stainless steel
Heat Sink	Black anodized aluminum
Center Contact	Gold plated beryllium copper/brass
Net Weight	About 10 g

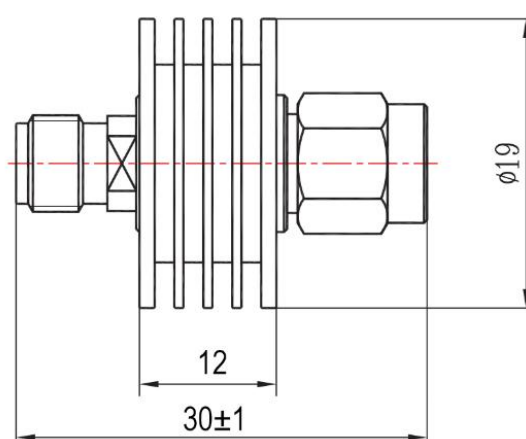
Environmental

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C
RoHS	Compliant
Temperature Coefficient	<0.0004 dB/dB/°C

Dimensions(mm)



1-30dB



40-50dB



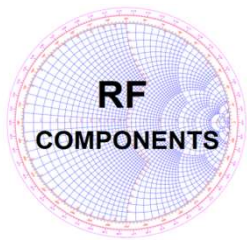
Notes

- 1.To maintain best performance, recommended to use fan to keep the case temperature under 85°C.
- 2.Customized dB values, outlines and optimal accuracy/VSWR available.

Model Description

RFAB06S5-XX-C

- 1.XX for dB value: 06=6dB,30=30dB
- 2.Code for connector configuration:
A=female for two ends; B=male for two ends
C=female for one end and male for the other.



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SMA Attenuators

RFAB06S10 Series

DC - 6000 MHz, 10 Watt, SMA Attenuators, 1 - 40 dB

Rev 2

Electrical

Impedance	50 ohm			
Frequency Range	DC-6 GHz			
VSWR	1.2 max			
Input Avg Power	10W@ 25°C ambient, derating linearly to 1W at 100°C			
Peak Power	500W (5 micro-sec pulse width, 1% duty cycle)			
Direction	Bidirectional, SMA female to SMA male (other configurations available)			

Attenuation(dB)	1-10	11-20	21-30	31-40
Accuracy(dB)	±0.5	±0.6	±0.8	±0.8

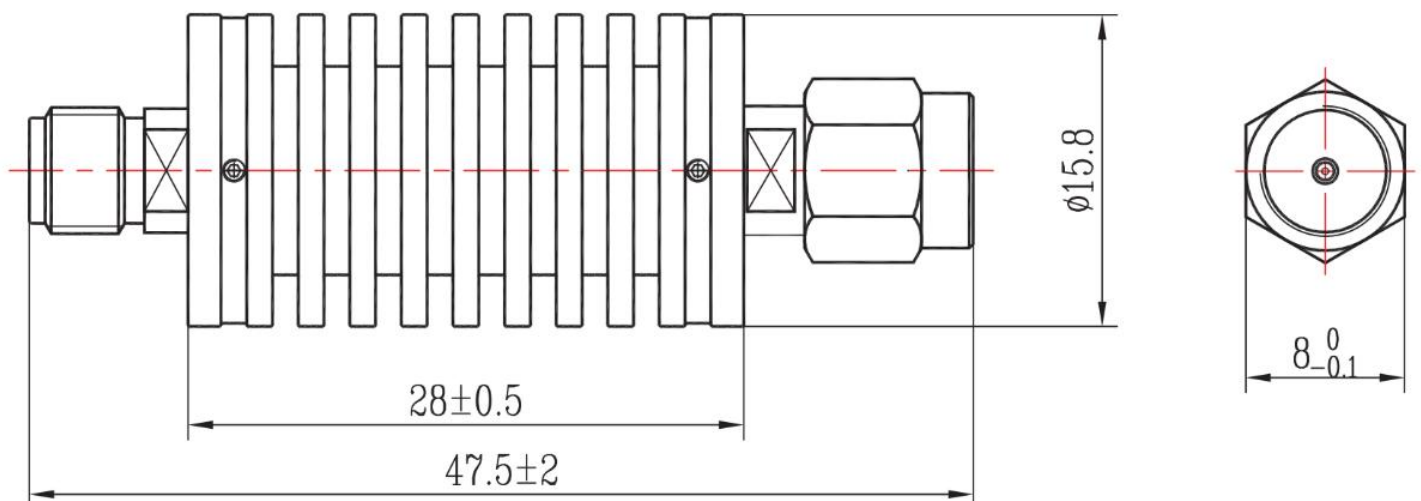
Mechanical

Connector Body	Passivated stainless steel
Heat Sink	Black anodized aluminum
Center Contact	Gold plated beryllium copper/brass
Net Weight	About 16 g

Environmental

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C
RoHS	Compliant
Temperature Coefficient	<0.0004 dB/dB/°C

Dimensions(mm)



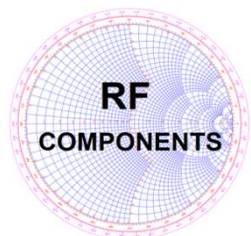
Notes

- 1.To maintain best performance, recommended to use fan to keep the case temperature under 85°C.
- 2.Customized dB values, outlines and optimal accuracy/VSWR available.

Model Description

RFAB06S10XX-C

- 1.XX for dB value: 06=6dB,30=30dB
- 2.Code for connector configuration:
A=female for two ends; B=male for two ends
C=female for one end and male for the other.



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N Type Attenuators

RFAB8-N2-XX

DC - 8500 MHz, N Type, 2 Watt, RF Attenuators

Rev 2

Electrical

Impedance	50 ohm					
Frequency Range	DC-8.5 GHz					
VSWR	1.25 max					
Input Avg Power	2W@ 25°C ambient, derating linearly to 0.2W at 100°C					
Peak Power	250W (5 micro-sec pulse width, 0.4% duty cycle)					
Direction	Bidirectional, N female to N male (other configurations available)					
Attenuation(dB)	1-10	20	30	40	50	60
Accuracy(dB)	±0.5	±0.6	±0.8	±0.8	±0.8	±0.9

Mechanical

Connector Body	Ternary alloy plated brass
Heat Sink	N/A
Center Contact	Gold plated beryllium copper/brass
Net Weight	About 55 g

Environmental

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C
RoHS	Compliant
Temperature Coefficient	<0.0004 dB/dB/°C

Dimensions(mm)



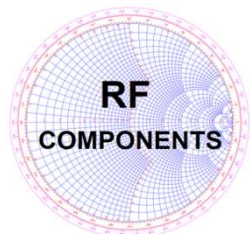
Notes

1.Customized dB values, outlines and optimal accuracy/VSWR available.

Model Description

RFAB08-N2-XX-C

- 1.XX for dB value: 06=6dB,30=30dB
- 2.Code for connector configuration:
A=female for two ends; B=male for two ends
C=female for one end and male for the other.



N Type Attenuators

RFAB6-N5-XX

DC - 6000 MHz, N Type, 5 Watt, RF Attenuators

Rev 2

Electrical

Impedance	50 ohm					
Frequency Range	DC-6 GHz					
VSWR	1.25 max					
Input Avg Power	5W@ 25°C ambient, derating linearly to 0.5W at 100°C					
Peak Power	500W (5 micro-sec pulse width, 0.5% duty cycle)					
Direction	Bidirectional, N female to N male (other configurations available)					
Attenuation(dB)	1-10	20	30	40	50	60
Accuracy(dB)	±0.5	±0.6	±0.8	±0.8	±0.8	±0.9

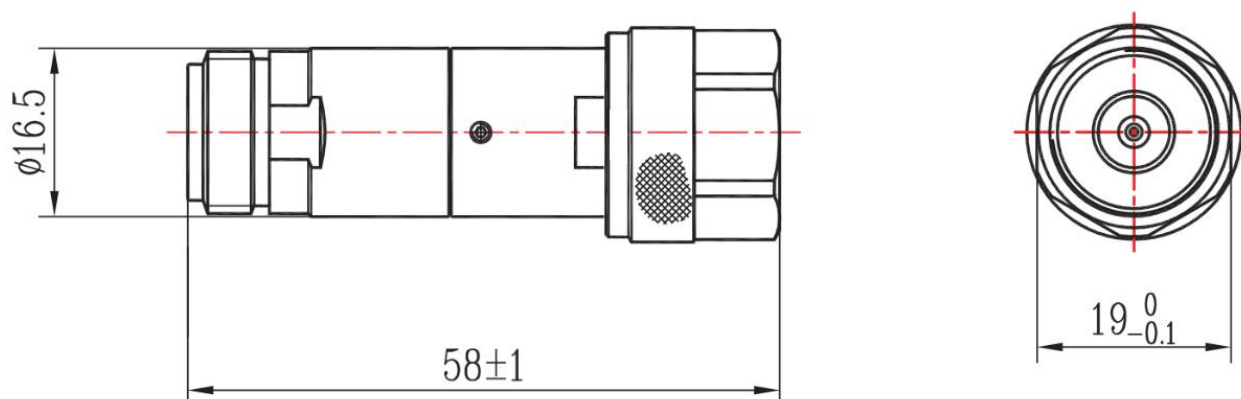
Mechanical

Connector Body	Ternary alloy plated brass
Heat Sink	N/A
Center Contact	Gold plated beryllium copper/brass
Net Weight	About 70 g

Environmental

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C
RoHS	Compliant
Temperature Coefficient	<0.0004 dB/dB/°C

Dimensions(mm)



Notes

1.Customized dB values, outlines and optimal accuracy/VSWR available.

Model Description

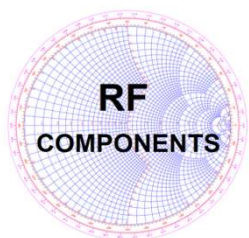
RFAB06-N5-XX-C

1.XX for dB value: 06=6dB,30=30dB

2.Code for connector configuration:

A=female for two ends; B=male for two ends

C=female for one end and male for the other.



4.3-10 Attenuators

RFAB6-5-4.3-XX

DC - 6000 MHz, 4.3-10, 5 Watt, RF Attenuators

Rev 2

Electrical

Impedance	50 ohm			
Frequency Range	DC-6 GHz			
VSWR	1.2 max			
Input Avg Power	5W@ 25°C ambient, derating linearly to 0.5W at 100°C			
Peak Power	500W (5 micro-sec pulse width, 0.5% duty cycle)			
Direction	Bidirectional, 4.3-10 female to 4.3-10 male (other configurations available)			

Attenuation(dB)	1-6	7-10	11-20	21-30
Accuracy(dB)	±0.3	±0.5	±0.6	±0.8

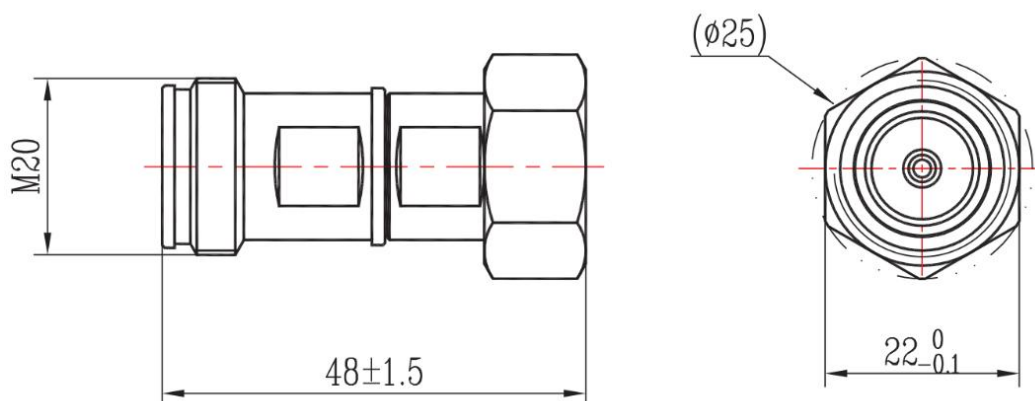
Mechanical

Connector Body	Ternary alloy plated brass
Heat Sink	N/A
Center Contact	Gold plated beryllium copper/brass
Net Weight	About 75 g

Environmental

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C
RoHS	Compliant
Temperature Coefficient	<0.0004 dB/dB/°C

Dimensions(mm)



Notes

1. Customized dB values, outlines and optimal accuracy/VSWR available.

Model Description

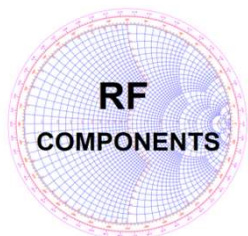
RFAB06-4310-5-XX-C

1. XX for dB value: 06=6dB, 30=30dB

2. Code for connector configuration:

A=female for two ends; B=male for two ends

C=female for one end and male for the other.



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4.3-10 Attenuators

RFAB6-10-4.3-XX

DC - 6000 MHz, 4.3-10, 10 Watt, RF Attenuators

Rev 2

Electrical

Impedance	50 ohm				
Frequency Range	DC-6 GHz				
VSWR	1.25 max				
Input Avg Power	10W@ 25°C ambient, derating linearly to 1W at 100°C				
Peak Power	500W (5 micro-sec pulse width, 1% duty cycle)				
Direction	Bidirectional, 4.3-10 female to 4.3-10 male (other configurations available)				

Attenuation(dB)	1-6	7-10	11-20	21-30	31-50
Accuracy(dB)	±0.3	±0.5	±0.6	±0.8	±0.8

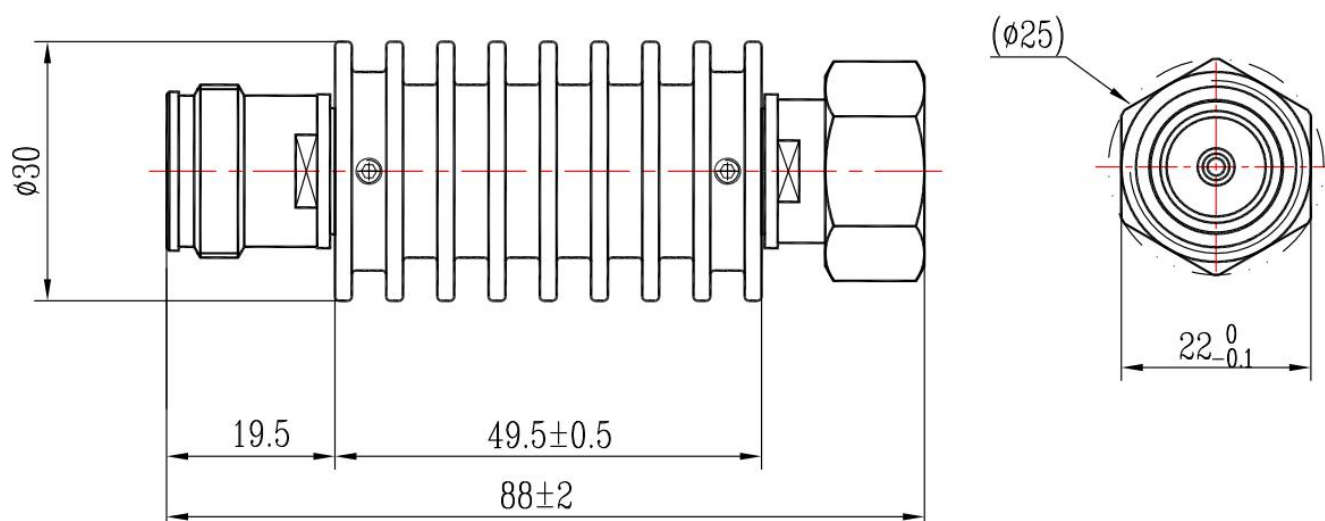
Mechanical

Connector Body	Ternary alloy plated brass
Heat Sink	Black anodized aluminum
Center Contact	Gold plated beryllium copper/brass
Net Weight	About 100 g

Environmental

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C
RoHS	Compliant
Temperature Coefficient	<0.0004 dB/dB/°C

Dimensions(mm)



Notes

1. Customized dB values, outlines and optimal accuracy/VSWR available.

Model Description

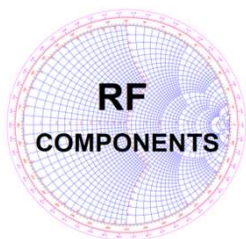
RFAB06-4310-10-XX-C

1. XX for dB value: 06=6dB, 30=30dB

2. Code for connector configuration:

A=female for two ends; B=male for two ends

C=female for one end and male for the other.



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Coaxial Fixed Attenuator

RFAB04XX4310C100

DC-4 GHz, 6 - 60 dB, 100 Watts, 4.3-10 Male to Female, Bi-Directional Operation

Rev 2

Electrical

Impedance	50 ohm				
Frequency Range	DC-4 GHz				
VSWR	1.2 max				
Input Avg Power	100W@ 25°C ambient, derating linearly to 10W at 100°C				
Peak Power	5kW (5 micro-sec pulse width, 0.5% duty cycle)				
Direction	Bidirectional, 4.3-10 female to 4.3-10 male (other configurations available)				

Attenuation(dB)	6-10	20	30	40	50,60
Accuracy(dB)	±0.7	±0.7	±0.8	±0.8	±0.9

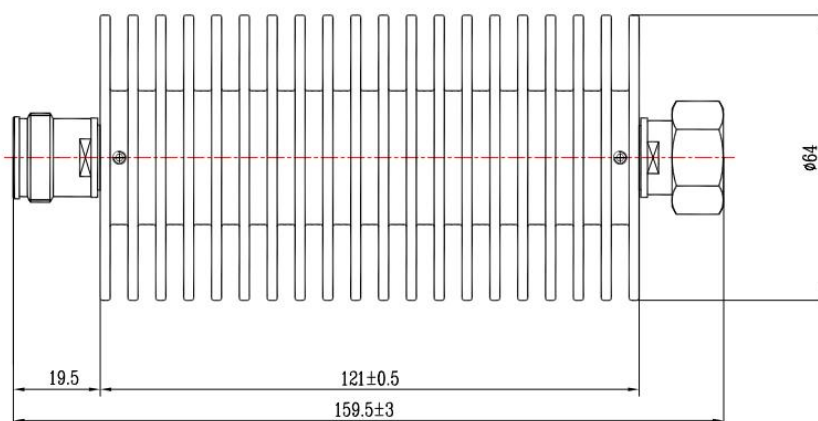
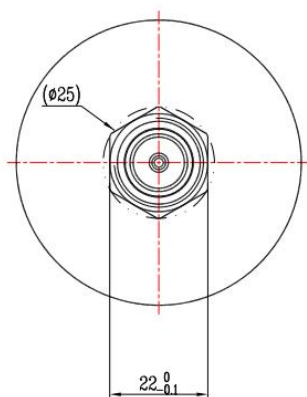
Mechanical

Connector Body	Ternary alloy plated brass
Heat Sink	Black anodized aluminum
Center Contact	Gold plated beryllium copper/brass
Net Weight	About 650 g

Environmental

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C
RoHS	Compliant
Temperature Coefficient	<0.0004 dB/dB/°C

Dimensions(mm)



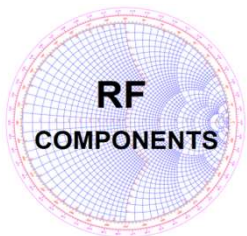
Notes

- 1.To maintain best performance, recommended to use fan to keep the case temperature under 85°C.
- 2.Customized dB values, outlines and optimal accuracy/VSWR available.

Model Description

RFAT04XX4310C100

- 1.XX for dB value: 06=6dB,30=30dB
- 2.Code for connector configuration:
A=female for two ends; B=male for two ends
C=female for one end and male for the other.



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SMA Terminations

RFT18-2SMA-M

DC - 18000 MHz, SMA Male, 2 Watt Termination

Rev 2

Electrical

Impedance	50 ohm
Frequency Range	DC-18 GHz
VSWR	1.15 max
Input Avg Power	2W@ 25°C ambient, derating linearly to 0.2W at 100°C
Peak Power	250W (5 micro-sec pulse width, 0.4% duty cycle)

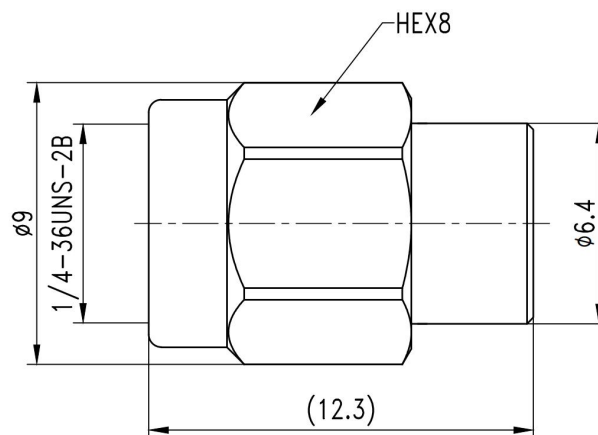
Mechanical

Connector Body	Passivated stainless steel
Center Contact	Gold plated brass
Weight	3.5g

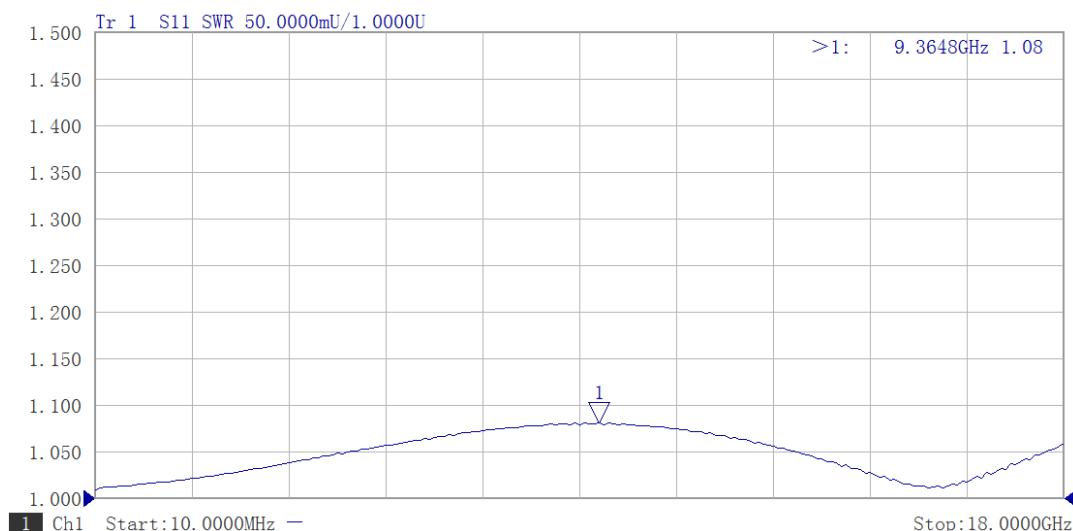
Environmental

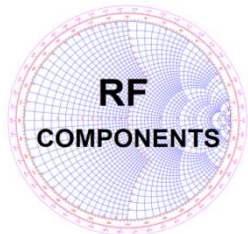
Operating Temp	-55°C to 100°C
Storage Temp	-55°C to 125°C
RoHS	Compliant

Dimensions(mm)



Typical Test Data





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SMA Terminations

RFT6-5SMA-M

DC - 6000 MHz, SMA Male, 5 Watt Termination

Rev 2

Electrical

Impedance	50 ohm
Frequency Range	DC-6 GHz
VSWR	1.2 max
Input Avg Power	5W@ 25°C ambient, derating linearly to 0.5W at 100°C
Peak Power	500W (5 micro-sec pulse width, 0.5% duty cycle)

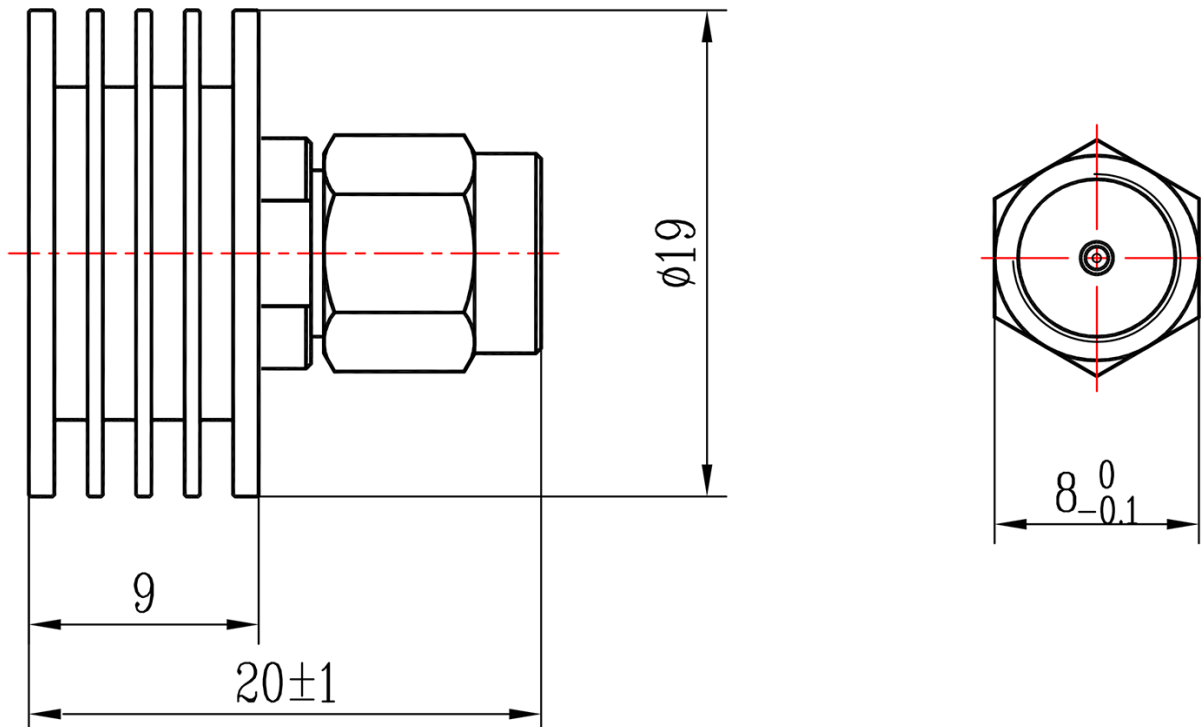
Mechanical

Connector Body	Passivated stainless steel
Center Contact	Gold plated brass
Heat Sink	Black anodized aluminum

Environmental

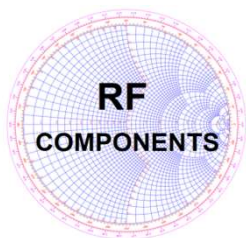
Operating Temp	-55°C to 100°C
Storage Temp	-55°C to 125°C
RoHS	Compliant

Dimensions(mm)



Notes

1. Customized outlines and optimal VSWR available.
2. To maintain best performance, recommended to use fan to keep the case temperature under 85°C.



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SMA Terminations

RFT6-10SMA-M

DC - 6000 MHz, SMA Male, 10 Watt Termination

Rev 2

Electrical

Impedance	50 ohm
Frequency Range	DC-6 GHz
VSWR	1.2 max
Input Avg Power	10W@ 25°C ambient, derating linearly to 1W at 100°C
Peak Power	500W (5 micro-sec pulse width, 1% duty cycle)

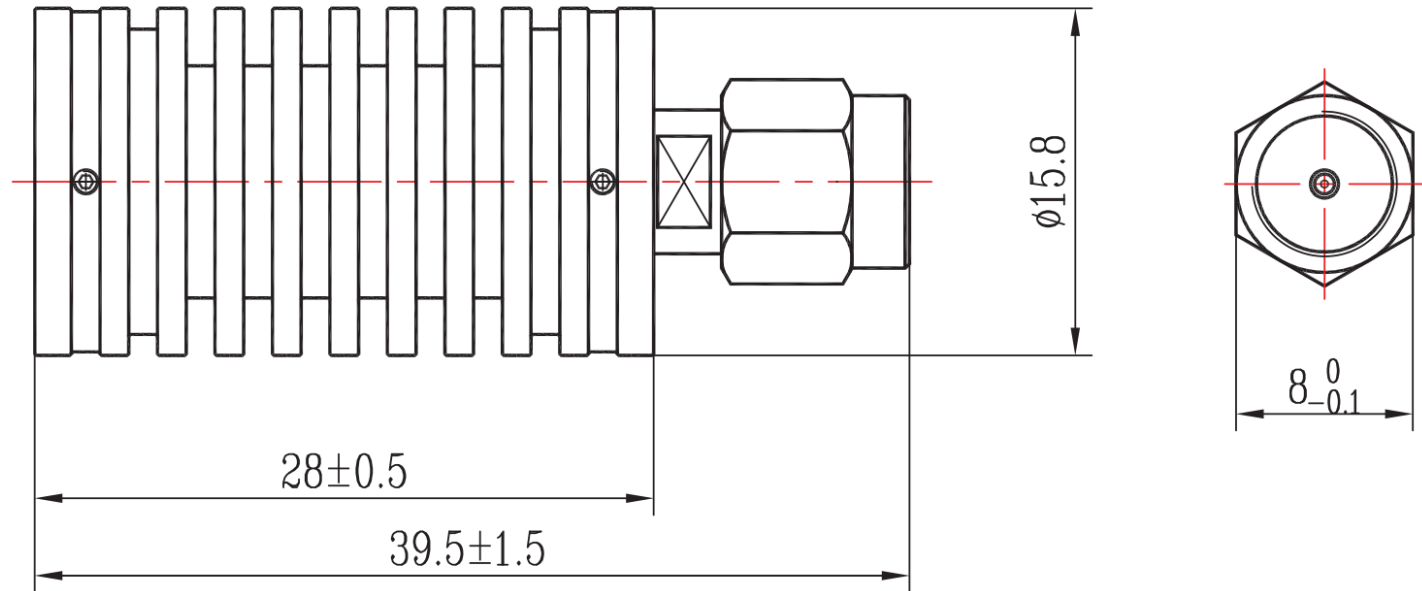
Mechanical

Connector Body	
Center Contact	
Heat Sink	Black anodized aluminum

Environmental

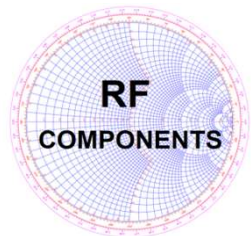
Operating Temp	-55°C to 100°C
Storage Temp	-55°C to 125°C
RoHS	Compliant

Dimensions(mm)



Notes

- 1.Customized outlines and optimal VSWR available.
- 2.To maintain best performance, recommended to use fan to keep the case temperature under 85°C.



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N Type Termination

RFT6-2N-M

DC - 6000 MHz, N Type Male, 2 Watt Termination

Rev 2

Electrical

Impedance	50 ohm
Frequency Range	DC-6 GHz
VSWR	1.2 max
Input Avg Power	2W@ 25°C ambient, derating linearly to 0.2W at 100°C
Peak Power	250W (5 micro-sec pulse width, 0.4% duty cycle)

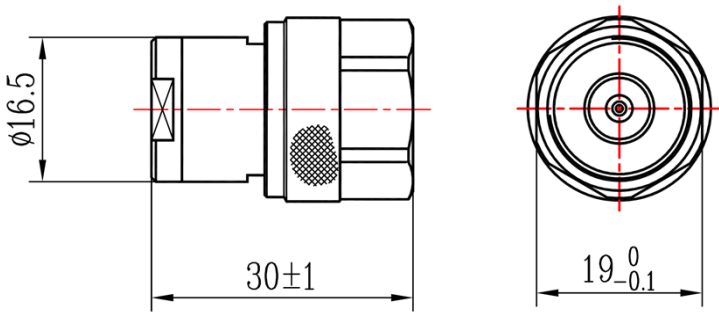
Mechanical

Connector Body	
	Gold plated brass
Heat Sink	N/A

Environmental

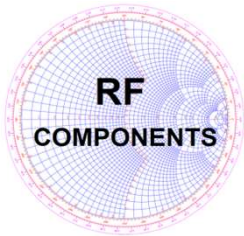
Operating Temp	-55°C to 100°C
Storage Temp	-55°C to 125°C
RoHS	Compliant

Dimensions(mm)



Notes

- 1. Customized outlines and optimal VSWR available.



RFCOMPONENTS.COM.AU



N Type Termination

RFT6-5N-M**DC - 6000 MHz, N Type Male, 5 Watt Termination**

Rev 2

Electrical

Impedance	50 ohm
Frequency Range	DC-6 GHz
VSWR	
	5W@ 25°C ambient, derating linearly to 0.5W at 100°C
Peak Power	500W (5 micro-sec pulse width, 0.5% duty cycle)

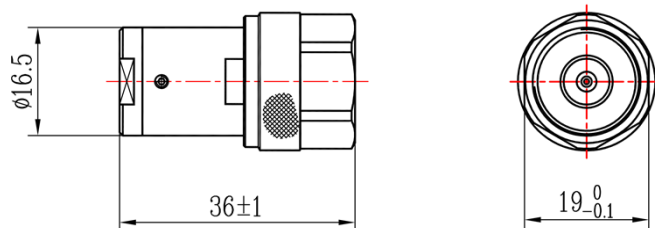
Mechanical

Connector Body	Ternary alloy plated brass
Center Contact	Gold plated brass
Heat Sink	N/A

Environmental

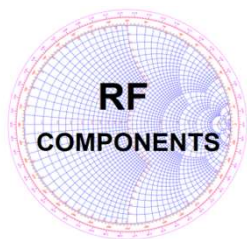
Operating Temp	-55°C to 100°C
Storage Temp	-55°C to 125°C
RoHS	Compliant

Dimensions(mm)



Notes

1. Customized outlines and optimal VSWR available.



RFCOMPONENTS.COM.AU

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N Type Termination

RFT6-10N-M

DC - 6000 MHz, N Type Male, 10 Watt Termination

Rev 2

Electrical

Impedance	50 ohm
Frequency Range	DC-6 GHz
VSWR	1.2 max
Input Avg Power	10W@ 25°C ambient, derating linearly to 1W at 100°C
Peak Power	500W (5 micro-sec pulse width, 1% duty cycle)

Mechanical

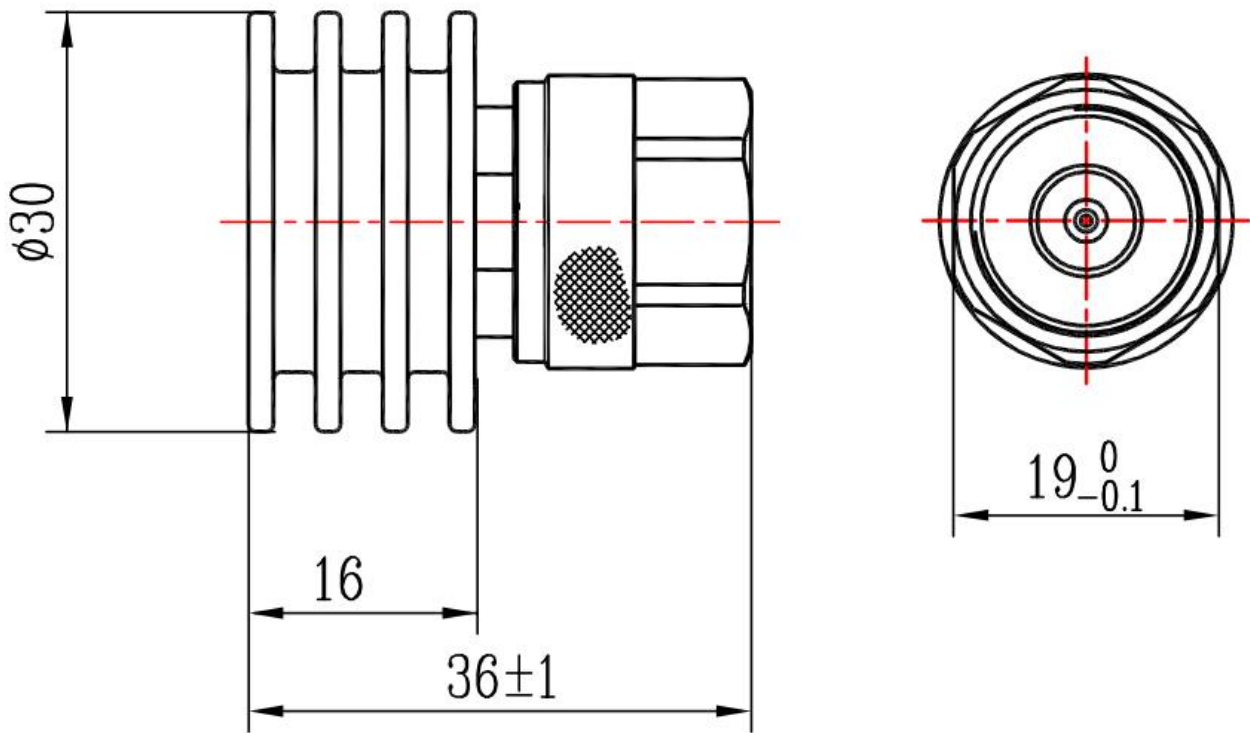
Connector Body	Ternary alloy plated brass
Center Contact	Gold plated brass
Heat Sink	Black anodized aluminum

Environmental

Operating Temp	-55°C to 100°C
Storage Temp	-55°C to 125°C
RoHS	Compliant

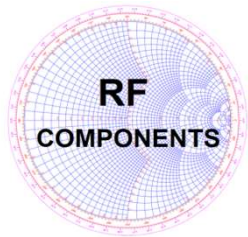
Dimensions(mm)

Net Weight(65g)



Notes

- 1.Customized outlines and optimal VSWR available.
- 2.To maintain best performance, recommended to use fan to keep the case temperature under 85°C.



RFCOMPONENTS.COM.AU



4.3-10 Type Termination

RFT6-2-4310-M

DC - 6000 MHz, 4.3-10 Male, 2 Watt Termination

Rev 2

Electrical

Impedance	50 ohm
Frequency Range	DC-6 GHz
VSWR	1.2 max
Input Avg Power	2W@ 25°C ambient, derating linearly to 0.5W at 100°C
Peak Power	250W (5 micro-sec pulse width, 0.4% duty cycle)

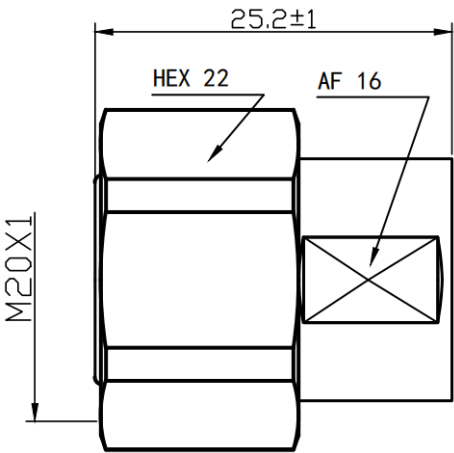
Mechanical

Connector Body	Ternary alloy plated brass
Center Contact	Gold plated brass
Heat Sink	N/A

Environmental

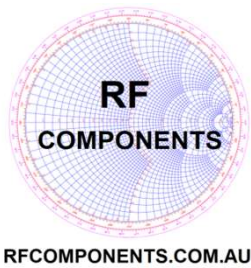
Operating Temp	-55°C to 100°C
Storage Temp	-55°C to 125°C
RoHS	Compliant

Dimensions(mm)



Notes

1. Customized outlines and optimal VSWR available.



4.3-10 Type Termination

RFT6-25-4310-M

DC - 6000 MHz, 4.3-10 Male, 25 Watt Termination

Rev 2

Electrical

Impedance	50 ohm
Frequency Range	DC-6 GHz
VSWR	1.25 max
Input Avg Power	25W@ 25°C ambient, derating linearly to 2.5W at 100°C
Peak Power	1kW (5 micro-sec pulse width, 1% duty cycle)

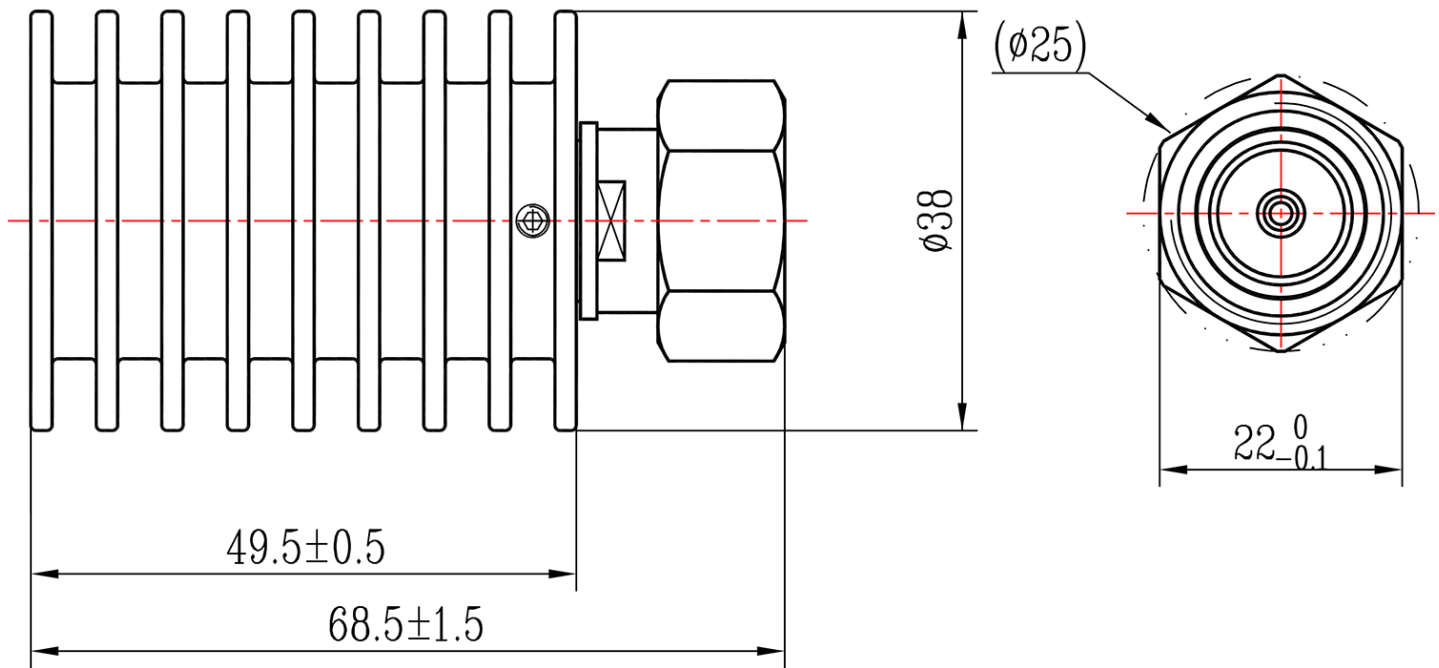
Mechanical

Connector Body	Ternary alloy plated brass
Center Contact	Gold plated brass
Heat Sink	Black anodized aluminum

Environmental

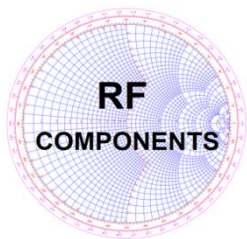
Operating Temp	-55°C to 100°C
Storage Temp	-55°C to 125°C
RoHS	Compliant

Dimensions(mm)



Notes

- 1.Customized outlines and optimal VSWR available.
- 2.To maintain best performance, recommended to use fan to keep the case temperature under 85°C.



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4.3-10 Type Termination

RFT6-50-4310-M

DC - 6000 MHz, 4.3-10 Male, 50 Watt Termination

Rev 2

Electrical

Impedance	50 ohm
Frequency Range	DC-6 GHz
VSWR	1.25 max
Input Avg Power	50W@ 25°C ambient, derating linearly to 5W at 100°C
Peak Power	1kW (5 micro-sec pulse width, 2% duty cycle)

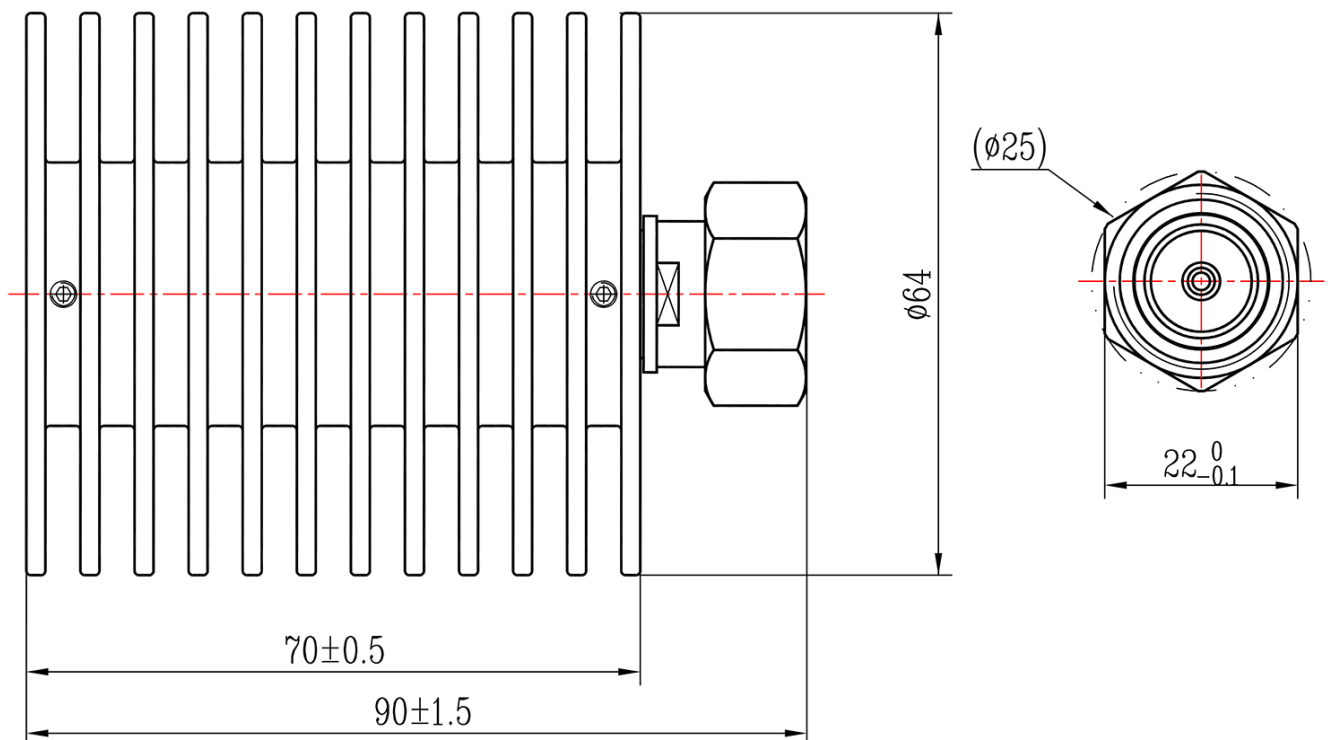
Mechanical

Connector Body	Ternary alloy plated brass
Center Contact	Gold plated brass
Heat Sink	Black anodized aluminum

Environmental

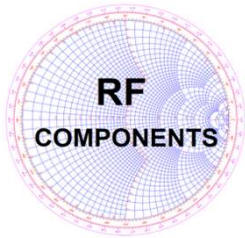
Operating Temp	-55°C to 100°C
Storage Temp	-55°C to 125°C
RoHS	Compliant

Dimensions(mm)



Notes

1. Customized outlines and optimal VSWR available.
2. To maintain best performance, recommended to use fan to keep the case temperature under 85°C.



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4.3-10 Type Termination

RFT6-100-4310-M**DC - 6000 MHz, 4.3-10 Male, 100 Watt Termination**

Rev 2

Electrical

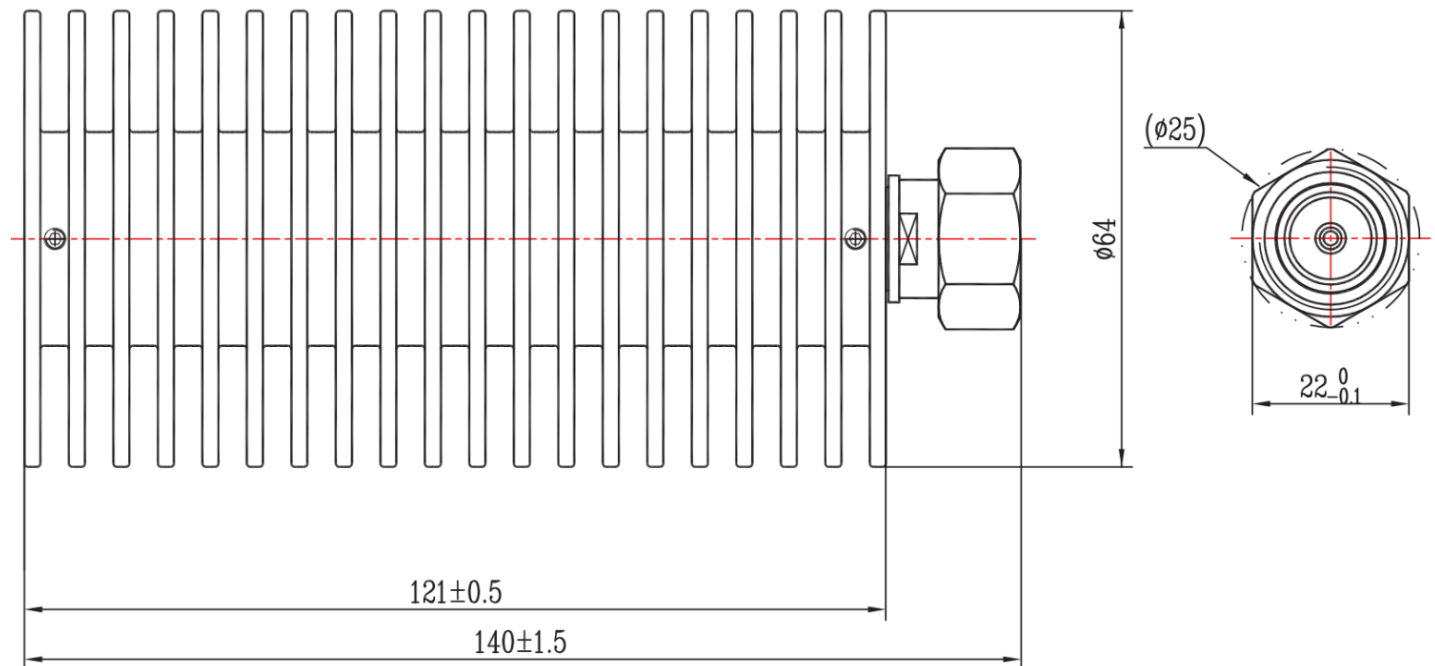
Impedance	50 ohm
Frequency Range	DC-6 GHz
VSWR	1.25 max
Input Avg Power	100W@ 25°C ambient, derating linearly to 10W at 100°C
Peak Power	5kW (5 micro-sec pulse width, 0.5% duty cycle)

Mechanical

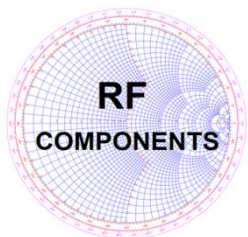
Connector Body	Ternary alloy plated brass
Center Contact	Gold plated brass
Heat Sink	Black anodized aluminum

Environmental

Operating Temp	-55°C to 100°C
Storage Temp	-55°C to 125°C
RoHS	Compliant

Dimensions(mm)**Notes**

1. Customized outlines and optimal VSWR available.
2. To maintain best performance, recommended to use fan to keep the case temperature under 85°C.



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4.3-10 LOW PIM Cable Assembly

RFCA-4343-405 Series

Part Numbering

RFCA-43M43M-405-XXX

M=Male 4.3-10 **F** = Female 4.3-10

M=Male 4.3-10 **F** = Female 4.3-10

XXX= Length Cm Example 009 = 9 Cm, 050 = 50 Cm

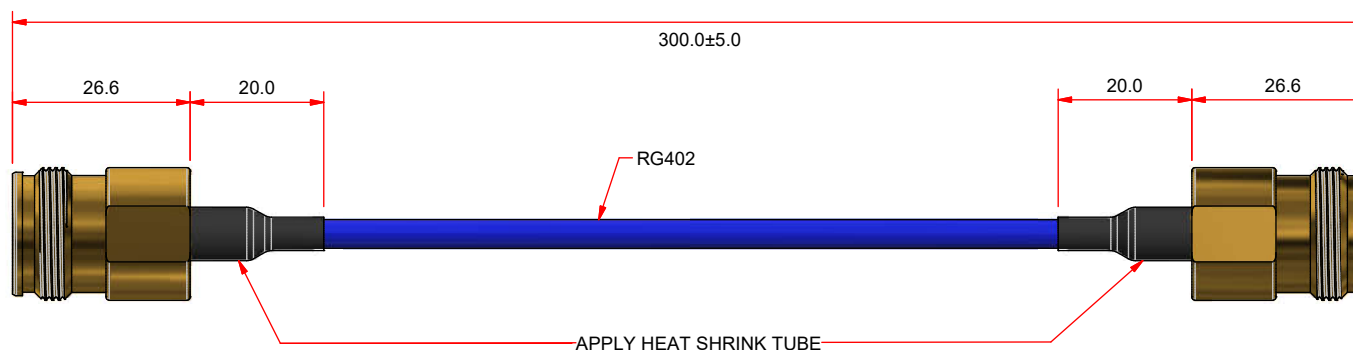
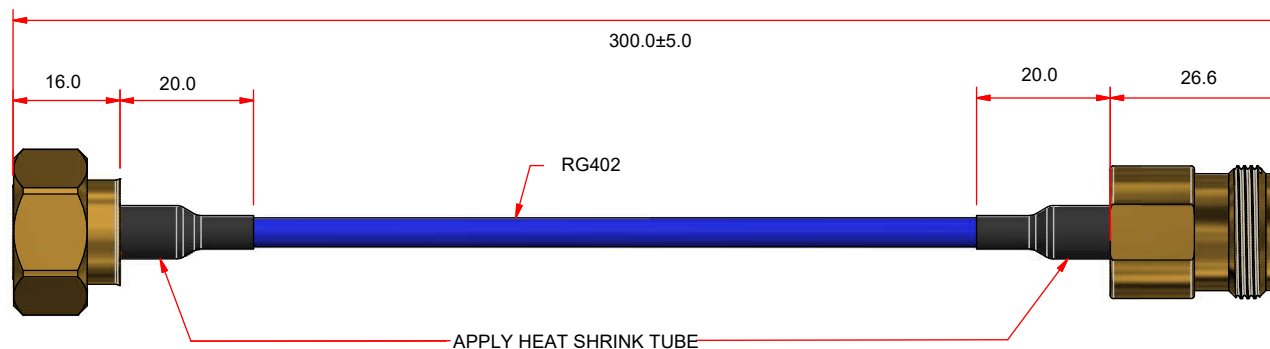
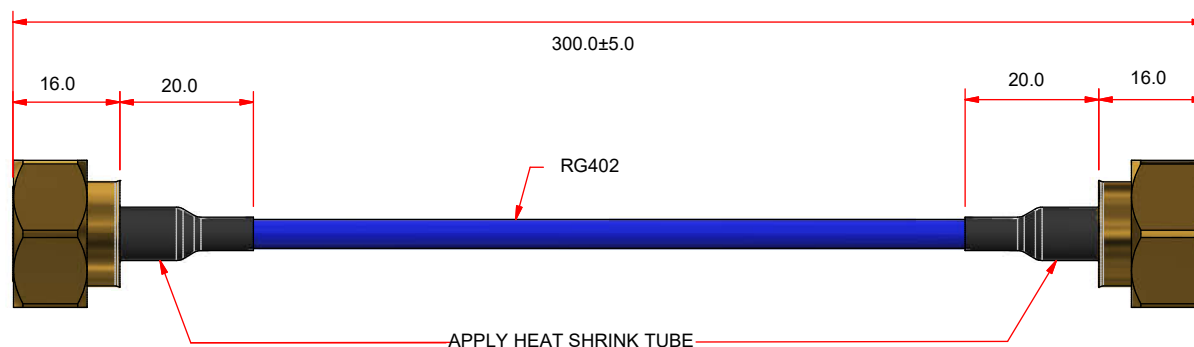
CONNECTOR INTERFACE, IAW IEC 61169-54.

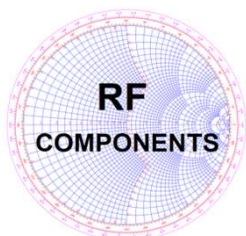
ELECTRICAL CHARACTERISTICS:

- CHARACTERISTIC IMPEDANCE: 50 OHMS NOMINAL
- FREQUENCY RANGE: 0 TO 6 GHz
- VSWR: 1.10 Max @ DC-3GHz
1.30 Max @ 3-6GHz
- IM PERFORMANCE: 158 dBc typ., 155 dBc MIN
2x43dBm (900MHz/1800MHz/3500MHz)
- TEMPERATURE RANGE:-40°C TO +125°C

MATERIAL AND SURFACES:

- MATERIAL:
- BODY: BRASS
- OUTER CONTACT: Spring Copper
- CENTER CONTACT: Spring Copper
- INSULATOR: VIRGIN PTFE PRE
- PLATING:
- BODY: CuSnZn 3um
- OUTER CONTACT: Ag 3um
- CENTER CONTACT: Ag 3um





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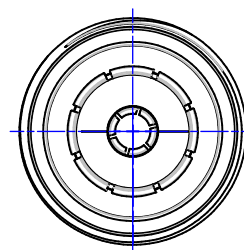
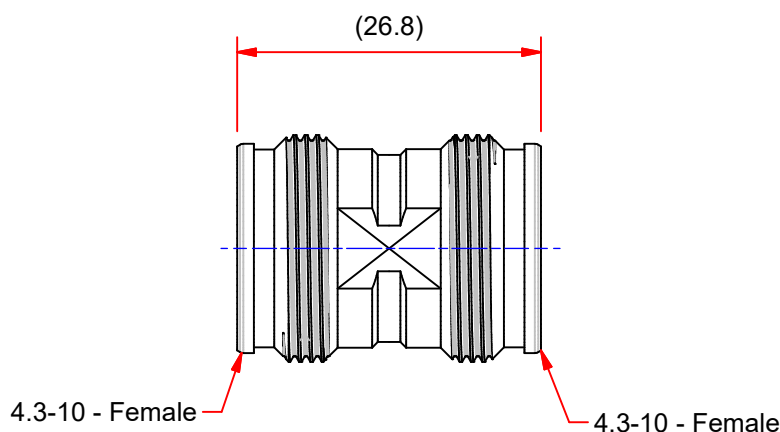
4.3-10 to 4.3-10 Adaptor

RFADP-4.3F-4.3F

DC-6 GHz, 4.3-10 Female to 4.3-10 Female RF Coaxial Adaptor

LOW PIM SERIES

Rev 2



REFERENCE STANDARD

IEC61165-54

1. ELECTRIC PERFORMANCE

NOMINAL IMPEDANCE(Ω)

50

FREQUENCY RANGE

DC-6GHz

VSWR

$\leq 1.06 @ 0-3\text{GHz}$

$\leq 1.1 @ 3-6\text{GHz}$

PIM(dBc)

$\leq -160(2 \times 43\text{dBm})$

INSERT LOSS

≤ 0.1

INSULATION RESISTANCE(M Ω)

≥ 5000

PROOF VOLTAGE(V)

2500

CONTACT RESISTANCE(m Ω)

OUTER CONDUCTOR < 1.0

INNER CONDUCTOR < 0.25

2. MECHANICAL PERFORMANCE

RETENTION

$\geq 4\text{N}$ (OUTER CONDUCTOR)

$\geq 1.5\text{N}$ (INNER CONDUCTOR)

MATING CYCLES

100

AXIAL FORCE

200 N

INNER CONDUCTOR TORQUE

0.3 N.m

IP CLASS

IP 67

CORROSION RESISTANCE

96h salt fog

3. MATERIAL AND PLATING

INNER CONDUCTOR

SPRING COPPER Ag5 μm

BODY

BRASS TIN-NICKEL ALLOY2 μm

OUTER CONDUCTOR

SPRING COPPER Ag5 μm

INSULATOR

PTFE

4. ENVIRONMENT

TEMP.RANGE

$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

WEATHER STANDARD

IEC 60068 40 / 085/ 21

THERMAL SHOCK

IEC 60068 -2-14-Na

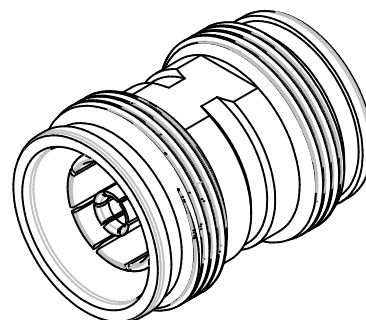
VIBRATION

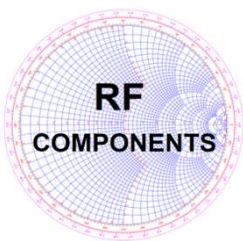
IEC 60068-2-6-Fc

SHOCK

IEC 60068-2-27

ROHS COMPLIANT





RFCOMPONENTS.COM.AU

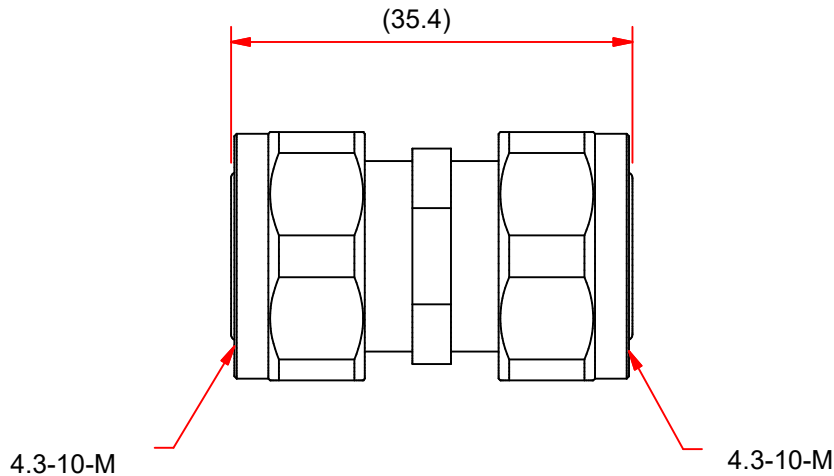
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4.3-10 to 4.3-10 Adaptor

RFADP-4.3M-4.3M

DC-6 GHz, 4.3-10 Male to 4.3-10 Male RF Coaxial Adaptor

LOW PIM SERIES



REFERENCE STANDARD

1. ELECTRIC PERFORMANCE
NOMINAL IMPEDANCE(Ω)
FREQUENCY RANGE
VSWR

PIM(dBc)
INSERT LOSS
INSULATION RESISTANCE(M Ω)
PROOF VOLTAGE(V)
CONTACT RESISTANCE(m Ω)

2. MECHANICAL PERFORMANCE
RETENTION

MATING CYCLES
AXIAL FORCE
INNER CONDUCTOR TORQUE
CORROSION RESISTANCE

3. MATERIAL AND PLATING

INNER CONDUCTOR
BODY
OUTER CONDUCTOR
INSULATOR

4. ENVIRONMENT

TEMP.RANGE
WEATHER STANDARD
THERMAL SHOCK
VIBRATION
SHOCK
ROHS COMPLIANT

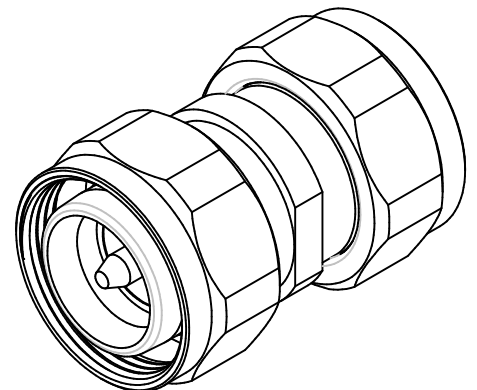
IEC61165-54

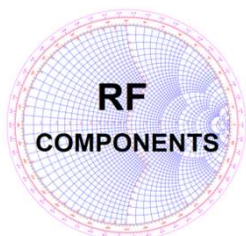
50
DC-6GHz
 $\leq 1.06@0-3\text{GHz}$
 $\leq 1.1@3-6\text{GHz}$
 $\leq -163(2*43\text{dBm})$
 ≤ 0.1
 ≥ 5000
2500
OUTER CONDUCTOR <1.0
INNER CONDUCTOR <0.25

$\geq 4\text{N}$ (OUTER CONDUCTOR)
 $\geq 1.5\text{N}$ (INNER CONDUCTOR)
100
200 N
0.3 N.m
96h salt fog

SPRING COPPER Ag5 μm
BRASS TIN-NICKEL ALLOY2 μm
SPRING COPPER Ag5 μm
PTFE

-40 $^{\circ}\text{C}$ ~+85 $^{\circ}\text{C}$
IEC 60068 40 / 085/ 21
IEC 60068 -2-14-Na
IEC 60068-2-6-Fc
IEC 60068-2-27





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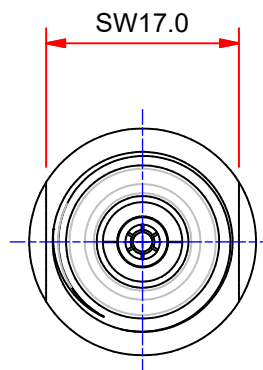
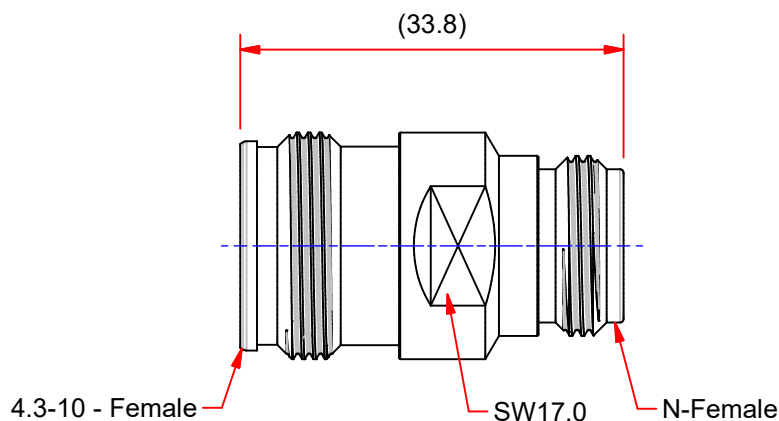
4.3-10 to N Adaptor

RFADP-4.3F-NF

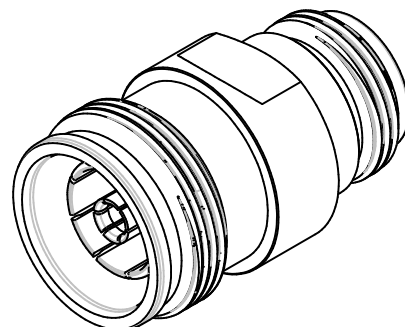
DC-6 GHz, 4.3-10 Female to N Female RF Coaxial Adaptor

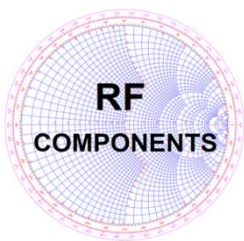
LOW PIM SERIES

Rev 2



REFERENCE STANDARD	IEC61165-54&IEC60169-16
1. ELECTRIC PERFORMANCE	
NOMINAL IMPEDANCE(Ω)	50
FREQUENCY RANGE	DC-6GHz
VSWR	$\leq 1.06 @ 0-3\text{GHz}$ $\leq 1.1 @ 3-6\text{GHz}$
PIM(dBc)	$\leq -160 (2 \times 43\text{dBm})$
INSERT LOSS	≤ 0.1
INSULATION RESISTANCE(M Ω)	≥ 5000
PROOF VOLTAGE(V)	2500
CONTACT RESISTANCE(m Ω)	OUTER CONDUCTOR <1.0 INNER CONDUCTOR <0.25
2. MECHANICAL PERFORMANCE	
RETENTION	$\geq 4\text{N}$ (OUTER CONDUCTOR) $\geq 1.5\text{N}$ (INNER CONDUCTOR)
MATING CYCLES	100
AXIAL FORCE	200 N
INNER CONDUCTOR TORQUE	0.3 N.m
IP CLASS	IP 67
CORROSION RESISTANCE	96h salt fog
3. MATERIAL AND PLATING	
INNER CONDUCTOR	SPRING COPPER Ag5 μm
BODY	BRASS TIN-NICKEL ALLOY2 μm
OUTER CONDUCTOR	SPRING COPPER Ag5 μm
INSULATOR	PTFE
4. ENVIRONMENT	
TEMP.RANGE	-40 $^{\circ}\text{C}$ ~+85 $^{\circ}\text{C}$
WEATHER STANDARD	IEC 60068 40 / 085/ 21
THERMAL SHOCK	IEC 60068 -2-14-Na
VIBRATION	IEC 60068-2-6-Fc
SHOCK	IEC 60068-2-27
ROHS COMPLIANT	





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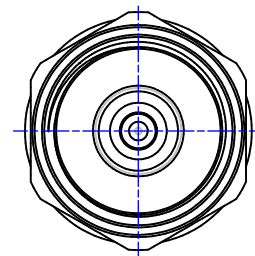
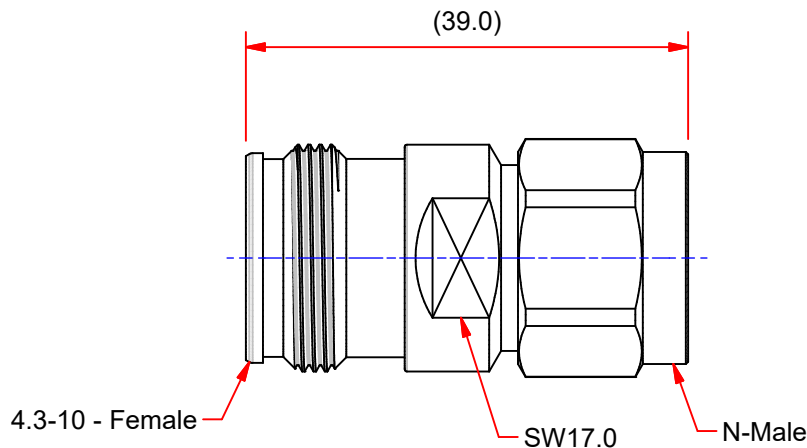
4.3-10 to N Adaptor

RFADP-4.3F-NM

DC-6 GHz, 4.3-10 Female to N Male RF Coaxial Adaptor

LOW PIM SERIES

Rev 2



REFERENCE STANDARD

IEC61165-54&IEC60169-16

1. ELECTRIC PERFORMANCE

NOMINAL IMPEDANCE(Ω)

50

FREQUENCY RANGE

DC-6GHz

VSWR

$\leq 1.06 @ 0-3\text{GHz}$

$\leq 1.1 @ 3-6\text{GHz}$

$\leq -160(2*43\text{dBm})$

PIM(dBc)

≤ 0.1

INSERT LOSS

INSULATION RESISTANCE(M Ω)

≥ 5000

PROOF VOLTAGE(V)

2500

CONTACT RESISTANCE(m Ω)

OUTER CONDUCTOR <1.0

INNER CONDUCTOR <0.25

2. MECHANICAL PERFORMANCE

RETENTION

$\geq 4\text{N}$ (OUTER CONDUCTOR)

$\geq 1.5\text{N}$ (INNER CONDUCTOR)

MATING CYCLES

100

AXIAL FORCE

200 N

INNER CONDUCTOR TORQUE

0.3 N.m

IP CLASS

IP 67

CORROSION RESISTANCE

96h salt fog

3. MATERIAL AND PLATING

INNER CONDUCTOR

SPRING COPPER Ag5 μm

BODY

BRASS TIN-NICKEL ALLOY2 μm

OUTER CONDUCTOR

SPRING COPPER Ag5 μm

INSULATOR

PTFE

4. ENVIRONMENT

TEMP.RANGE

-40 $^{\circ}\text{C}$ ~+85 $^{\circ}\text{C}$

WEATHER STANDARD

IEC 60068 40 / 085/ 21

THERMAL SHOCK

IEC 60068 -2-14-Na

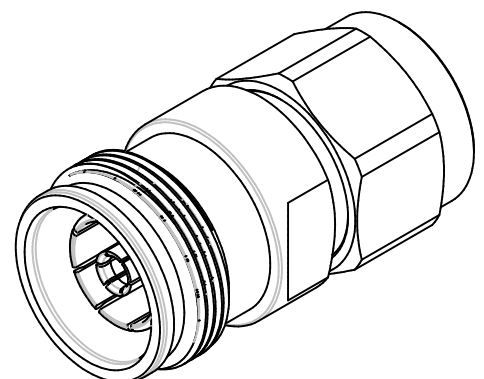
VIBRATION

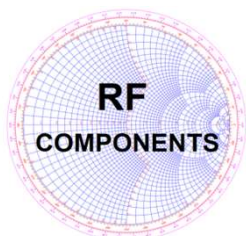
IEC 60068-2-6-Fc

SHOCK

IEC 60068-2-27

ROHS COMPLIANT





RFCOMPONENTS.COM.AU

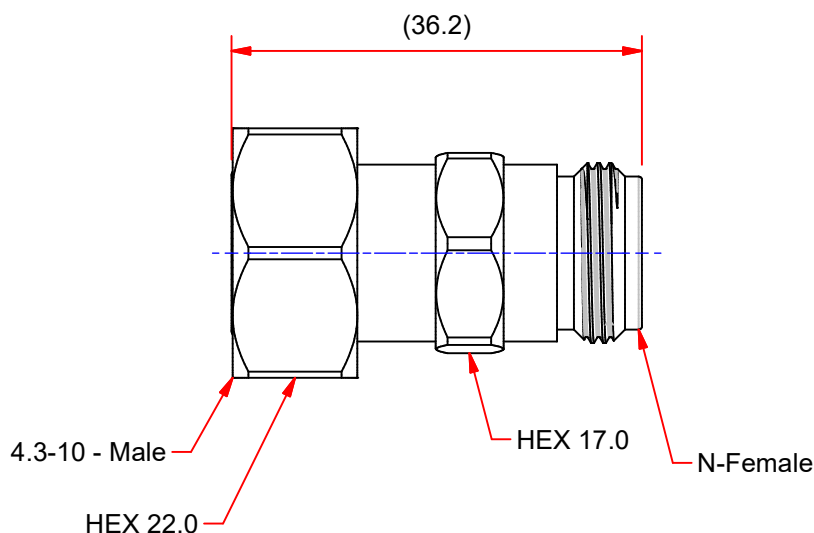
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4.3-10 to N Adaptor

RFADP-4.3M-NF

DC-6 GHz, 4.3-10 Male to N Female RF Coaxial Adaptor

LOW PIM SERIES



REFERENCE STANDARD

IEC61165-54&IEC60169-16

1. ELECTRIC PERFORMANCE

NOMINAL IMPEDANCE(Ω)

50

FREQUENCY RANGE

DC-6GHz

VSWR

$\leq 1.06 @ 0-3\text{GHz}$

PIM(dBc)

$\leq 1.1 @ 3-6\text{GHz}$

INSERT LOSS

$\leq -160(2 \times 43\text{dBm})$

INSULATION RESISTANCE(M Ω)

≤ 0.1

PROOF VOLTAGE(V)

≥ 5000

CONTACT RESISTANCE(m Ω)

2500

OUTER CONDUCTOR < 1.0

INNER CONDUCTOR < 0.25

2. MECHANICAL PERFORMANCE

RETENTION

$\geq 4\text{N}$ (OUTER CONDUCTOR)

$\geq 1.5\text{N}$ (INNER CONDUCTOR)

MATING CYCLES

100

AXIAL FORCE

200 N

INNER CONDUCTOR TORQUE

0.3 N.m

IP CLASS

IP 67

CORROSION RESISTANCE

96h salt fog

3. MATERIAL AND PLATING

INNER CONDUCTOR

SPRING COPPER Ag5 μm

BODY

BRASS TIN-NICKEL ALLOY2 μm

OUTER CONDUCTOR

SPRING COPPER Ag5 μm

INSULATOR

PTFE

4. ENVIRONMENT

TEMP.RANGE

-40 $^{\circ}\text{C}$ ~+85 $^{\circ}\text{C}$

WEATHER STANDARD

IEC 60068 40 / 085/ 21

THERMAL SHOCK

IEC 60068 -2-14-Na

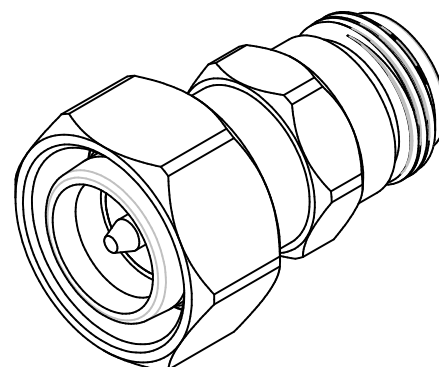
VIBRATION

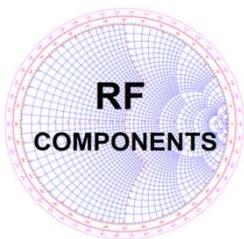
IEC 60068-2-6-Fc

SHOCK

IEC 60068-2-27

ROHS COMPLIANT





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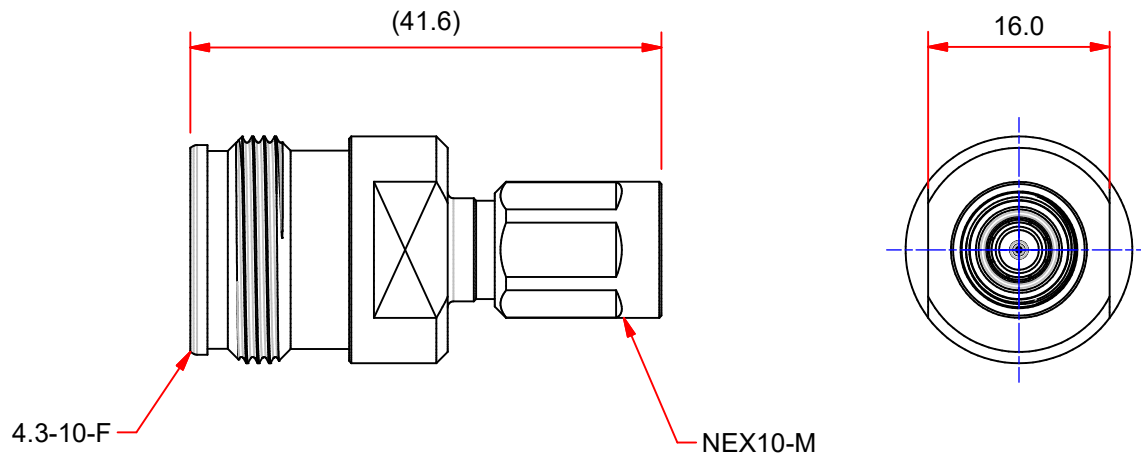
4.3-10 to NEX10 Adaptor

RFADP-4.3F-NEX10M

DC-6 GHz, 4.3-10 Female to NEX10 Male RF Coaxial Adaptor

LOW PIM SERIES

Rev 2



REFERENCE STANDARD
1. ELECTRIC PERFORMANCE
NOMINAL IMPEDANCE(Ω)
FREQUENCY RANGE
VSWR

PIM(dBc)
INSERT LOSS
INSULATION RESISTANCE(M Ω)
PROOF VOLTAGE(V)
CONTACT RESISTANCE(m Ω)

2. MECHANICAL PERFORMANCE
RETENTION

MATING CYCLES
INNER CONDUCTOR TORQUE
CORROSION RESISTANCE

3. MATERIAL AND PLATING
INNER CONDUCTOR
BODY
OUTER CONDUCTOR
INSULATOR

4. ENVIRONMENT
TEMP.RANGE
WEATHER STANDARD
THERMAL SHOCK
VIBRATION
SHOCK
ROHS COMPLIANT

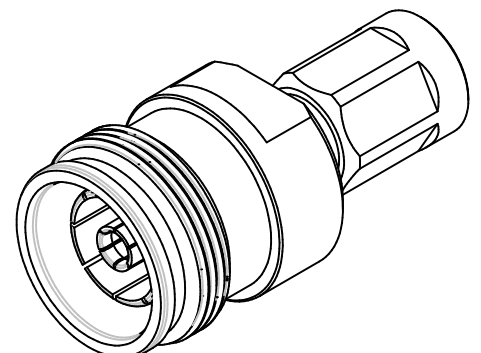
IEC61165-54&NEX 10

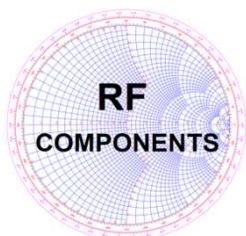
50
DC-6GHz
 $\leq 1.10@0-3\text{GHz}$
 $\leq 1.2@3-6\text{GHz}$
 $\leq -163(2*43\text{dBm})$
 ≤ 0.1
 ≥ 5000
2500
OUTER CONDUCTOR <1.0
INNER CONDUCTOR <0.25

$\geq 4\text{N}$ (OUTER CONDUCTOR)
 $\geq 1.5\text{N}$ (INNER CONDUCTOR)
100
25 N
96h salt fog

SPRING COPPER Ag5 μm
BRASS TIN-NICKEL ALLOY2 μm
SPRING COPPER Ag5 μm
PTFE

-40 $^{\circ}\text{C}$ ~+85 $^{\circ}\text{C}$
IEC 60068 40 / 085/ 21
IEC 60068 -2-14-Na
IEC 60068-2-6-Fc
IEC 60068-2-27





RFCOMPONENTS.COM.AU

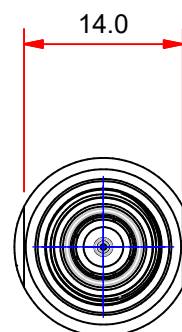
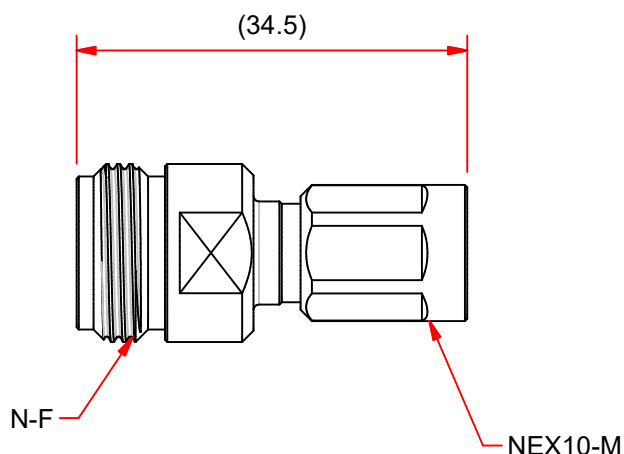
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NEX10 to N Adaptor

DC-6 GHz, NEX10 Male to N Female RF Coaxial Adaptor

RFADP-NEX10M-NF

LOW PIM SERIES



REFERENCE STANDARD

1. ELECTRIC PERFORMANCE

NOMINAL IMPEDANCE(Ω)

FREQUENCY RANGE

VSWR

PIM(dBc)

INSERT LOSS

INSULATION RESISTANCE(M Ω)

PROOF VOLTAGE(V)

CONTACT RESISTANCE(m Ω)

2. MECHANICAL PERFORMANCE

RETENTION

MATING CYCLES

INNER CONDUCTOR TORQUE

CORROSION RESISTANCE

3. MATERIAL AND PLATING

INNER CONDUCTOR

BODY

OUTER CONDUCTOR

INSULATOR

4. ENVIRONMENT

TEMP.RANGE

WEATHER STANDARD

THERMAL SHOCK

VIBRATION

SHOCK

ROHS COMPLIANT

IEC61169-16&NEX 10

50

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