

FILTERS

BANDPASS



LEADLESS SURFACE-MOUNT MODELS

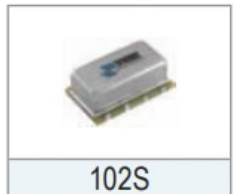
CENTER FREQUENCY (MHz)	INSERTION LOSS (dB) Max	PASSBAND (MHz)	20 dB BANDWIDTH (MHz)	40 dB BANDWIDTH (MHz)	PACKAGE	PIN-OUT (See Below)	MODEL
10.7	1.5	9.80 - 11.6	7.49 - 13.9	3.40 - 32.1	102S	1	FIS-10.7
21.4	1.5	19.6 - 23.2	14.9 - 27.8	6.80 - 64.2	102S	1	FIS-21.4
30.0	1.5	27.5 - 32.5	21.0 - 39.0	9.30 - 90.0	102S	1	FIS-30
45.0	1.5	41.2 - 48.8	31.5 - 58.5	13.0 - 135	102S	1	FIS-45
50.0	1.5	45.8 - 54.3	35.0 - 65.0	15.8 - 150	102S	1	FIS-50
60.0	1.5	54.9 - 65.1	42.0 - 78.0	19.0 - 180	102S	1	FIS-60
70.0	1.5	64.0 - 75.9	49.0 - 91.0	20.3 - 210	102S	1	FIS-70
100	1.5	91.5 - 108.5	70.0 - 130	30.3 - 300	102S	1	FIS-100
120	1.5	109.8 - 130.2	84.0 - 156	36.0 - 360	102S	1	FIS-120
140	1.5	128.1 - 151.9	98.0 - 182	42.7 - 420	102S	1	FIS-140



Bandpass Filters (FIS Series)

Features

- » Low Loss
- » Small Size
- » High Rejection
- » About 10 to 20% Bandwidth



Model #	Center (MHz)	Insertion Loss (dB) [Max.]	Passband (MHz)	20 dB BW (MHz)	40 dB BW (MHz)	Package
FIS-10.7	10.7	1.5	9.8 - 11.6	7.49 - 13.9	3.4 - 32.1	102S*
FIS-21.4	21.4	1.5	19.6 - 23.2	14.9 - 27.8	6.8 - 64.2	102S*
FIS-30	30	1.5	27.5 - 32.5	21 - 39	9.3 - 90	102S*
FIS-45	45	1.5	41.2 - 48.8	31.5 - 58.5	13 - 135	102S*
FIS-50	50	1.5	45.8 - 54.3	35 - 65	15.8 - 150	102S*
FIS-60	60	1.5	54.9 - 65.1	42 - 78	19 - 180	102S*
FIS-70	70	1.5	64 - 75.9	49 - 91	20.3 - 210	102S*
FIS-100	100	1.5	91.5 - 108.5	70 - 130	30.3 - 300	102S*
FIS-120	120	1.5	109.8 - 130.2	84 - 156	36 - 360	102S*
FIS-140	140	1.5	128.1 - 151.9	98 - 182	42.7 - 420	102S*

* Add suffix - LF to the part number for RoHS compliant version.

NOTE: For other frequencies, please contact Synergy.

*All surface mount filters are also available
in tubular packaging!*

*Add prefix "T" to the surface mount model when requesting quote
and ordering tubular models. Ex: **TFIS**-10.7*



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CENTER FREQUENCY (MHz)	INSERTION LOSS (dB) Max	PASSBAND (MHz)	20 dB BANDWIDTH (MHz)	40 dB BANDWIDTH (MHz)	PACKAGE	PIN-OUT (See Below)	MODEL
10.7	1.5	9.80 - 11.6	7.49 - 13.9	3.40 - 32.1	102S	1	FIS-10.7
21.4	1.5	19.6 - 23.2	14.9 - 27.8	6.80 - 64.2	102S	1	FIS-21.4
30.0	1.5	27.5 - 32.5	21.0 - 39.0	9.30 - 90.0	102S	1	FIS-30
45.0	1.5	41.2 - 48.8	31.5 - 58.5	13.0 - 135	102S	1	FIS-45
50.0	1.5	45.8 - 54.3	35.0 - 65.0	15.8 - 150	102S	1	FIS-50
60.0	1.5	54.9 - 65.1	42.0 - 78.0	19.0 - 180	102S	1	FIS-60
70.0	1.5	64.0 - 75.9	49.0 - 91.0	20.3 - 210	102S	1	FIS-70
100	1.5	91.5 - 108.5	70.0 - 130	30.3 - 300	102S	1	FIS-100
120	1.5	109.8 - 130.2	84.0 - 156	36.0 - 360	102S	1	FIS-120
140	1.5	128.1 - 151.9	98.0 - 182	42.7 - 420	102S	1	FIS-140



8 PIN - RELAY HEADER

CENTER FREQUENCY (MHz)	INSERTION LOSS (dB) Max	PASSBAND (MHz)	20 dB BANDWIDTH (MHz)	40 dB BANDWIDTH (MHz)	PACKAGE	PIN-OUT (See Below)	MODEL
10.7	1.5	9.80 - 11.6	7.49 - 13.9	3.40 - 32.1	102	1	FIP-10.7
21.4	1.5	19.6 - 23.2	14.9 - 27.8	6.80 - 64.2	102	1	FIP-21.4
30.0	1.5	27.5 - 32.5	21.0 - 39.0	9.30 - 90.0	102	1	FIP-30
45.0	1.5	41.2 - 48.8	31.5 - 58.5	13.0 - 135	102	1	FIP-45
50.0	1.5	45.8 - 54.3	35.0 - 65.0	15.8 - 150	102	1	FIP-50
60.0	1.5	54.9 - 65.1	42.0 - 78.0	19.0 - 180	102	1	FIP-60
70.0	1.5	64.0 - 75.9	49.0 - 91.0	20.3 - 210	102	1	FIP-70
100	1.5	91.5 - 108.5	70.0 - 130	30.3 - 300	102	1	FIP-100
120	1.5	109.8 - 130.2	84.0 - 156	36.0 - 360	102	1	FIP-120
140	1.5	128.1 - 151.9	98.0 - 182	42.7 - 420	102	1	FIP-140

NOTE: All units meet or exceed applicable MIL-F-18327.
For other frequencies and impedances please contact us.
Impedance is 50 Ohms for all models.

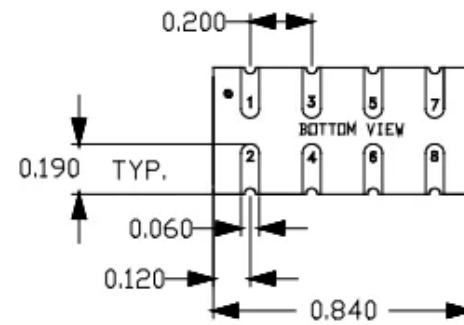
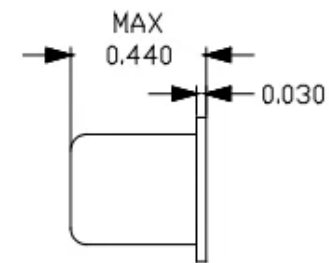
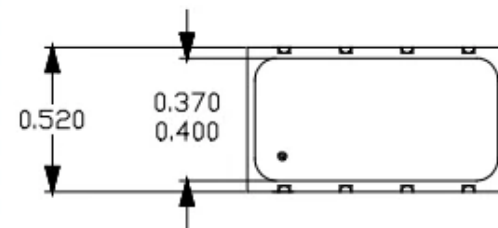
For pin location and package outline drawings, see back pages.

PIN-OUT TABLE

INPUT	OUTPUT	CASE GROUND
1	8	All Other



MECHANICAL OUTLINE:102S



LAYOUT FOR PRINTED CIRCUIT DESIGN

