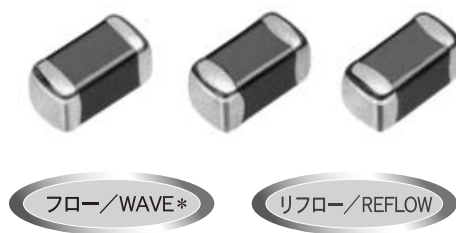


積層ハイロスインダクタ

MULTILAYER FERRITE CHIP BEADS

BK SERIES

OPERATING TEMP.	-55~+125°C
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*BK0603, BK1005は除く
*Except for BK0603, BK1005

特長 FEATURES

- Ag内部導体を使用した磁気シールド構造により、発熱やクロストークが小さい
- GND不要のため、パターン設計上の自由度が大きい
- ノイズ対策のため様々なバリエーションとインピーダンスをラインナップ
 - HS : XL成分を抑え、(デジタル波形のオーバーシュート等)波形品位の低下を抑制
 - HM : 20MHz以上で急峻に増大するZ特性により、100MHz~300MHz帯の輻射ノイズに適用(映像信号廻りに効果的)
 - LL : Zの立ち上がりを高周波域とした設計により、200MHz~500MHzのノイズ対策に適用
 - LM : 200MHz近傍のノイズ対策に最適。より高い減衰効果
 - HW : シリーズ中最もXL成分を抑えた設計により、波形品位低下の抑止と共に高周波域での減衰をも確保
 - TS : 直流抵抗低減化設計により、LSI電源廻りでのノイズ対策に最適

- Internal silver printed layer creates a closed circuit which acts as a magnetic shield minimizing heat generation and crosstalk.
- No need for grounding provides greater circuit design flexibility.
- Several material types and a broad range of impedance values provide noise countermeasures for various applications.
 - HS : Suppresses the XL component. Helps stop the reduction of the wave-form integrity (digital wave-form overshoot, etc.)
 - HM : Increases the Z characteristic sharply above 20MHz and is applicable for radiated noise in the 100MHz~300MHz range. Especially effective on video signal lines.
 - LL : Designed as a noise countermeasure for the 200MHz~500MHz range where the rise of the Z component is in the high frequency area.
 - LM : Intended for noise suppression around 200MHz. Effectively increases attenuation.
 - HW : The best material in the BK Series to suppress the XL component and stop the reduction of the wave-form integrity while maintaining attenuation in the high frequency area.
 - TS : Reduced DC resistance version for noise countermeasures around LSI power supplies.

用途 APPLICATIONS

- パソコン、デジタルスチルカメラ等の情報機器・デジタル機器のクロックライン、一般信号ラインに於ける高調波ノイズ対策
- パソコン、プリンタ等のインターフェイス、ハーネス接続部での輻射ノイズ及びイミュニティ対策
- ビデオ、ムービー等のAV機器に於けるノイズ対策
- PDC、PHS等の移動体通信機器の回路間の干渉防止
- 磁気シールド構造による小型化メリットを生かし、LSI電源供給ラインのノイズ防止フィルタ用途に最適(TS)

- High frequency noise countermeasure in personal computers, digital cameras and other information system products. For use on digital product clock lines and general signal lines.
- Radiated noise suppression in computer or printer interfaces and harness connectors.
- Noise suppression in video and other AV products.
- Prevents interference between circuits in cellular phones (PHS, PDC, etc.)
- Due to the closed internal circuit which acts as a magnetic shield, the TS material is extremely effective as a noise filter on LSI power supply lines where downsizing of components is needed.

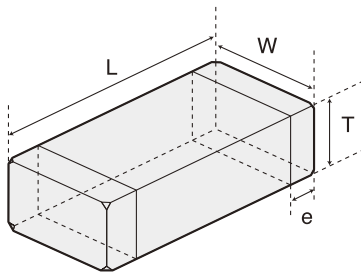
形名表記法 ORDERING CODE

1 形式 BK 積層ハイロスインダクタ	3 材質記号 HW HS HM LM LL TS 材質によりインピーダンス特性が異なる	4 公称インピーダンス [Ω] 例 150 15 101 100 102 1000	5 特性 - 標準品	7 当社管理記号 △ 標準品 △=スペース
2 形状寸法 (L×W) [mm] 0603 (0201) 0.6×0.3 1005 (0402) 1.0×0.5 1608 (0603) 1.6×0.8 2125 (0805) 2.0×1.25			6 包装 T リールテーピング	

B
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1 Type BK Multilayer Ferrite Chip Beads	3 Material HW HS HM LM LL TS Refer to impedance curves for material differences	4 Impedance [Ω] example 150 15 101 100 102 1000	5 Characteristics - Standard Products	7 Internal code △ Standard Products △=Blank Space
2 External Dimensions (L×W) (mm) 0603 (0201) 0.6×0.3 1005 (0402) 1.0×0.5 1608 (0603) 1.6×0.8 2125 (0805) 2.0×1.25			6 Packaging T Tape & Reel	

外形寸法 EXTERNAL DIMENSIONS

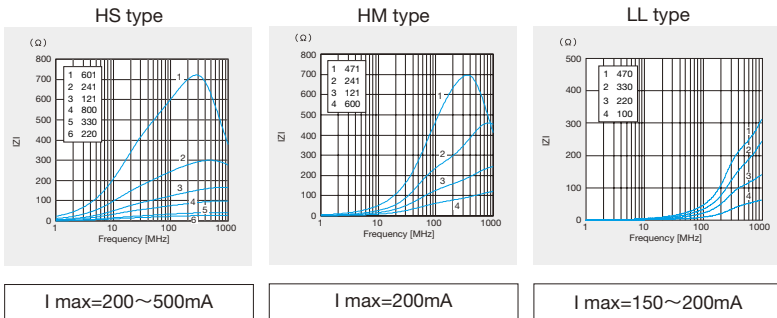


Type	L	W	T	e
BK0603 (0201)	0.60±0.03 (0.024±0.001)	0.30±0.03 (0.012±0.001)	0.30±0.03 (0.012±0.001)	0.15±0.05 (0.006±0.002)
BK1005 (0402)	1.00±0.05 (0.039±0.002)	0.50±0.05 (0.020±0.002)	0.50±0.05 (0.020±0.002)	0.25±0.10 (0.010±0.004)
BK1608 (0603)	1.6±0.15 (0.063±0.006)	0.8±0.15 (0.031±0.006)	0.8±0.15 (0.031±0.006)	0.3±0.2 (0.012±0.008)
BK2125 (0805)	2.0 ^{+0.3} _{-0.1} (0.079 ^{+0.012} _{-0.004})	1.25±0.2 (0.049±0.008)	0.85±0.2 1.25±0.2 (0.033±0.008) (0.049±0.008)	0.5±0.3 (0.020±0.012)

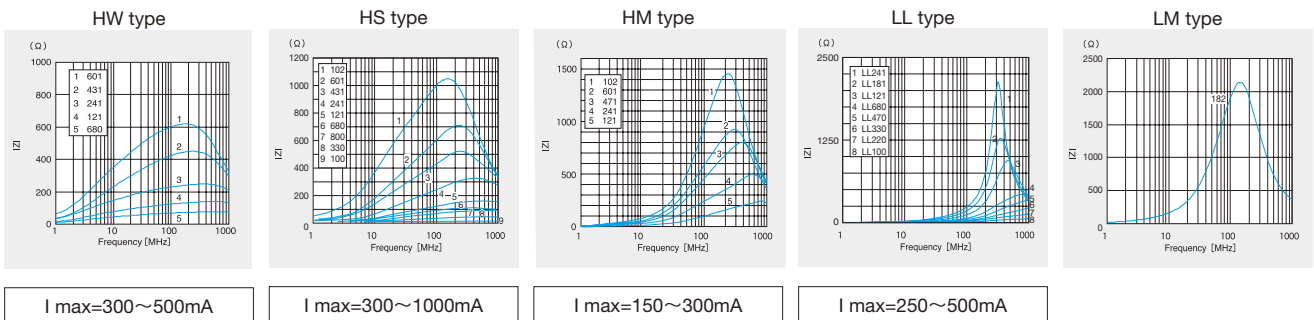
Unit : mm (inch)

概略バリエーション AVAILABLE MATERIALS

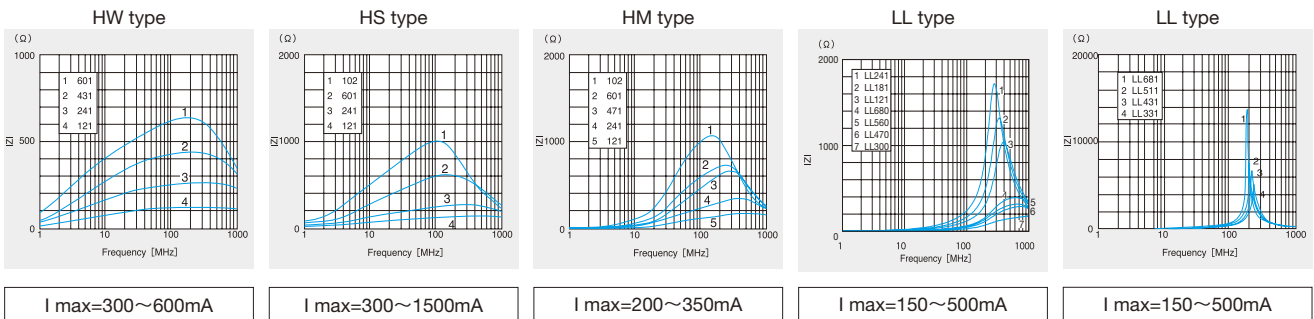
BK0603



BK1005



BK1608



セレクトションガイド
Selection Guide

アイテム一覧
Part Numbers

特性図
Electrical Characteristics

梱包
Packaging

信頼性
Reliability Data

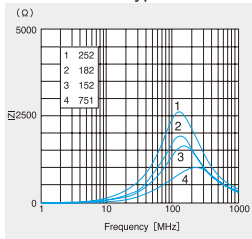
使用上の注意
Precautions



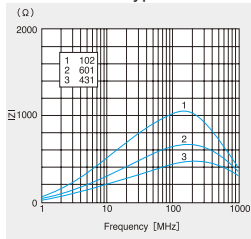
etc

BK1608

LM type



TS type

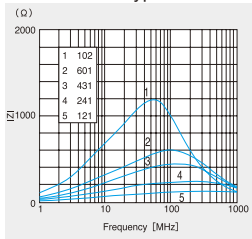


I max=200 ~ 300mA

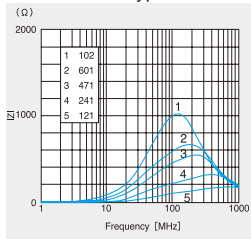
I max=300 ~ 400mA

BK2125

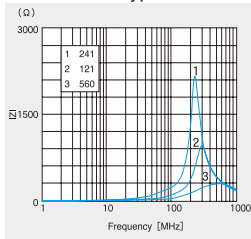
HS type



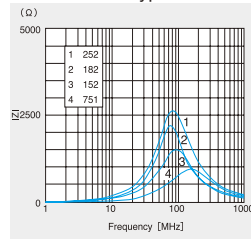
HM type



LL type



LM type



I max=300 ~ 1200mA

I max=400 ~ 800mA

I max=300 ~ 600mA

I max=200 ~ 400mA

BK0603

形名 Ordering code	EHS (Environmental Hazardous Substances)	インピーダンス Impedance [Ω] ±25%	測定周波数 Measuring frequency [MHz]	直流抵抗 DC resistance [Ω] (max.)	定格電流 Rated current [mA] (max.)	厚み Thickness [mm] (inch)
BK 0603 HS 220	RoHS	22	100	0.065	500	0.30±0.03 (0.012±0.001)
BK 0603 HS 330	RoHS	33		0.070	500	
BK 0603 HS 800	RoHS	80		0.40	200	
BK 0603 HS 121	RoHS	120		0.45	200	
BK 0603 HS 241	RoHS	240		0.65	200	
BK 0603 HS 601	RoHS	600		1.20	150	
BK 0603 HM 600	RoHS	60		0.25	200	
BK 0603 HM 121	RoHS	120		0.40	200	
BK 0603 HM 241	RoHS	240		0.80	200	
BK 0603 HM 471	RoHS	470		1.05	100	
BK 0603 LL 100	RoHS	10		0.25	200	
BK 0603 LL 220	RoHS	22		0.45	200	
BK 0603 LL 330	RoHS	33		0.55	150	
BK 0603 LL 470	RoHS	47		0.70	150	

BK1005

形名 Ordering code	EHS (Environmental Hazardous Substances)	インピーダンス Impedance [Ω] ±25%	測定周波数 Measuring frequency [MHz]	直流抵抗 DC resistance [Ω] (max.)	定格電流 Rated current [mA] (max.)	厚み Thickness [mm] (inch)
BK 1005 HW 680	RoHS	68	100	0.17	500	0.50±0.05 (0.020±0.002)
BK 1005 HW 121	RoHS	120		0.24	450	
BK 1005 HW 241	RoHS	240		0.31	400	
BK 1005 HW 431	RoHS	430		0.50	350	
BK 1005 HW 601	RoHS	600		0.60	300	
BK 1005 HS 100	RoHS	10		0.03	1000	
BK 1005 HS 330	RoHS	33		0.06	700	
BK 1005 HS 680	RoHS	68		0.10	700	
BK 1005 HS 800	RoHS	80		0.10	700	
BK 1005 HS 121	RoHS	120		0.20	500	
BK 1005 HS 241	RoHS	240		0.30	400	
BK 1005 HS 431	RoHS	430		0.45	350	
BK 1005 HS 601	RoHS	600		0.55	300	
BK 1005 HS 102	RoHS	1000		0.58	300	
BK 1005 HM 121	RoHS	120		0.18	300	
BK 1005 HM 241	RoHS	240		0.30	300	
BK 1005 HM 471	RoHS	470		0.45	250	
BK 1005 HM 601	RoHS	600		0.50	250	
BK 1005 HM 102	RoHS	1000		0.70	150	
BK 1005 LL 100	RoHS	10		0.11	500	
BK 1005 LL 220	RoHS	22		0.18	400	
BK 1005 LL 330	RoHS	33		0.25	400	
BK 1005 LL 470	RoHS	47		0.33	350	
BK 1005 LL 680	RoHS	68		0.31	400	
BK 1005 LL 121	RoHS	120		0.45	350	
BK 1005 LL 181	RoHS	180		0.50	300	
BK 1005 LL 241	RoHS	240		0.70	250	
BK 1005 LM 182	RoHS	1800		0.90	120	

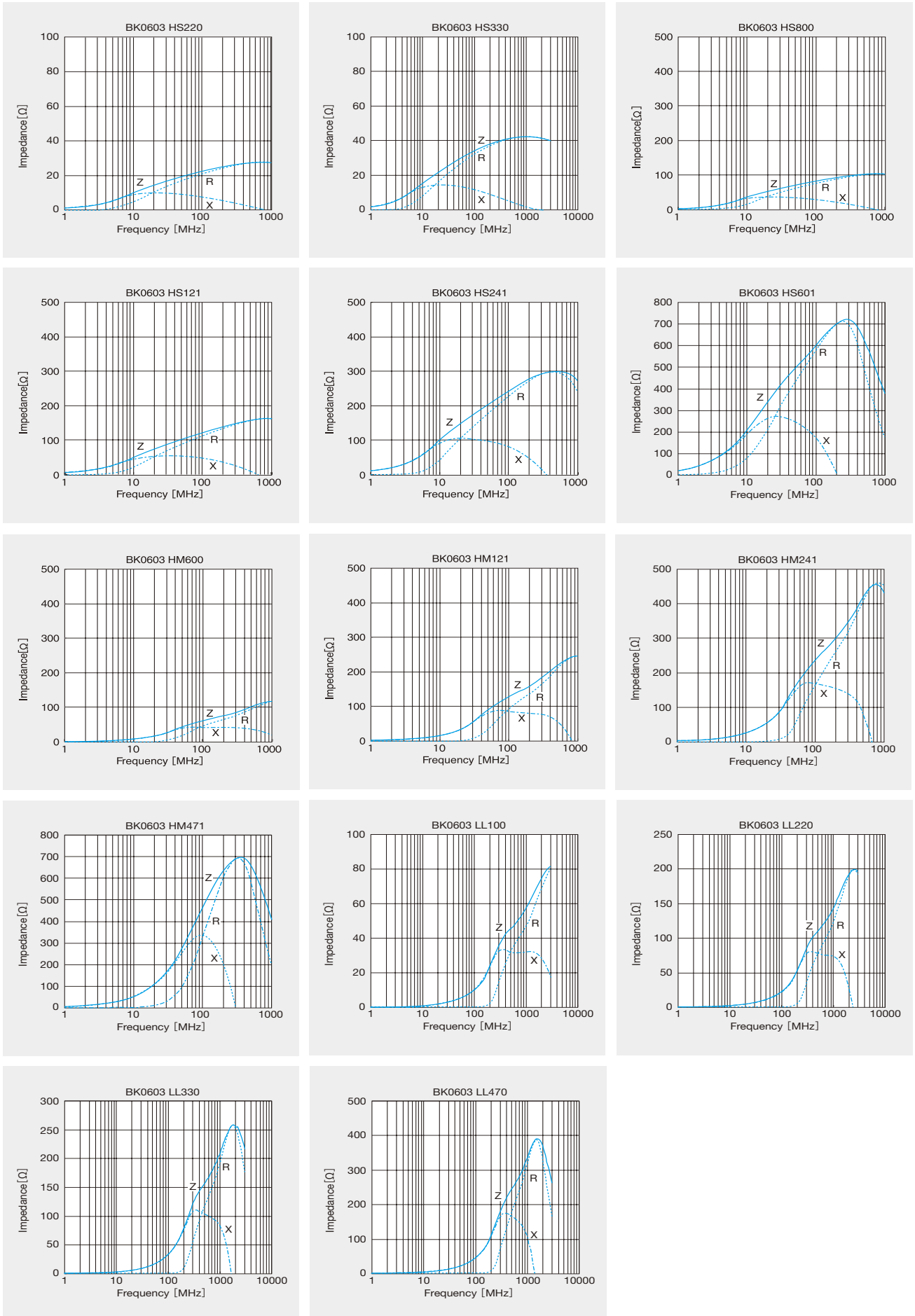
BK1608

形名 Ordering code	EHS (Environmental Hazardous Substances)	インピーダンス Impedance [Ω] ± 25%	測定周波数 Measuring frequency [MHz]	直流抵抗 DC resistance [Ω] (max.)	定格電流 Rated current [mA] (max.)	厚み Thickness [mm] (inch)
BK 1608 HW 121	RoHS	120	100	0.15	600	0.80 ± 0.15 (0.031 ± 0.006)
BK 1608 HW 241	RoHS	240		0.25	450	
BK 1608 HW 431	RoHS	430		0.30	400	
BK 1608 HW 601	RoHS	600		0.40	300	
BK 1608 HS 220	RoHS	22		0.05	1500	
BK 1608 HS 330	RoHS	33		0.08	1200	
BK 1608 HS 470	RoHS	47		0.10	900	
BK 1608 HS 600	RoHS	60		0.10	800	
BK 1608 HS 800	RoHS	80		0.10	600	
BK 1608 HS 121	RoHS	120		0.18	500	
BK 1608 HS 241	RoHS	240		0.25	400	
BK 1608 HS 601	RoHS	600		0.45	350	
BK 1608 HS 102	RoHS	1000		0.60	300	
BK 1608 HM 121	RoHS	120		0.20	350	
BK 1608 HM 241	RoHS	240		0.35	300	
BK 1608 HM 471	RoHS	470		0.45	250	
BK 1608 HM 601	RoHS	600		0.60	250	
BK 1608 HM 102	RoHS	1000		0.70	200	
BK 1608 LL 300	RoHS	30		0.20	500	
BK 1608 LL 470	RoHS	47		0.30	400	
BK 1608 LL 560	RoHS	56		0.30	400	
BK 1608 LL 680	RoHS	68		0.35	300	
BK 1608 LL 121	RoHS	120		0.50	300	
BK 1608 LL 181	RoHS	180		0.65	250	
BK 1608 LL 241	RoHS	240		0.80	250	
BK 1608 LL 331	RoHS	330		0.85	200	
BK 1608 LL 431	RoHS	430		0.85	200	
BK 1608 LL 511	RoHS	510		0.90	200	
BK 1608 LL 681	RoHS	680		1.00	150	
BK 1608 LM 751	RoHS	750		0.60	300	
BK 1608 LM 152	RoHS	1500	0.75	250		
BK 1608 LM 182	RoHS	1800	0.85	200		
BK 1608 LM 252	RoHS	2500	1.10	200		
BK 1608 TS 431	RoHS	430	0.25 ± 30%	400		
BK 1608 TS 601	RoHS	600	0.27 ± 30%	350		
BK 1608 TS 102	RoHS	1000	0.30 ± 30%	300		

BK2125

形名 Ordering code	EHS (Environmental Hazardous Substances)	インピーダンス Impedance [Ω] ± 25%	測定周波数 Measuring frequency [MHz]	直流抵抗 DC resistance [Ω] (max.)	定格電流 Rated current [mA] (max.)	厚み Thickness [mm] (inch)
BK 2125 HS 150	RoHS	15	100	0.05	1200	0.85 ± 0.2 (0.033 ± 0.008)
BK 2125 HS 220	RoHS	22		0.05	1200	
BK 2125 HS 330	RoHS	33		0.05	1200	
BK 2125 HS 470	RoHS	47		0.05	1000	
BK 2125 HS 750	RoHS	75		0.10	1000	
BK 2125 HS 101	RoHS	100		0.10	900	
BK 2125 HS 121	RoHS	120		0.15	800	
BK 2125 HS 241	RoHS	240		0.20	600	
BK 2125 HS 431	RoHS	430		0.25	500	
BK 2125 HS 601	RoHS	600		0.30	500	
BK 2125 HS 102	RoHS	1000		0.40	300	
BK 2125 HM 121	RoHS	120		0.15	800	
BK 2125 HM 241	RoHS	240		0.20	600	
BK 2125 HM 471	RoHS	470		0.25	500	
BK 2125 HM 601	RoHS	600		0.25	500	
BK 2125 HM 102	RoHS	1000		0.35	400	
BK 2125 LL 560	RoHS	56		0.20	600	
BK 2125 LL 121	RoHS	120		0.30	400	
BK 2125 LL 241	RoHS	240		0.35	300	
BK 2125 LM 751	RoHS	750		0.30	400	
BK 2125 LM 152	RoHS	1500		0.35	400	
BK 2125 LM 182	RoHS	1800		0.45	300	
BK 2125 LM 252	RoHS	2500		0.75	200	

BK0603



BK1005

