積層ハイロスインダクタ
MULTILAYER FERRITE CHIP BEADS
BK SERIES

OPERATING TEMP.	−55〜+125℃

フロー／WAVE＊　リフロー／REFLOW

＊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

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

3 材質記号

HW	材質によりインピーダンス特性が異なる
HS	
HM	
LM	
LL	
TS	

4 公称インピーダンス〔Ω〕

例	
150	15
101	100
102	1000

5 特性

−	標準品

6 包装

T	リールテーピング

7 当社管理記号

△	標準品

△＝スペース

B K 1 6 0 8 H S 1 2 1 − T ○
1 2 3 4 5 6 7

1 Type

BK	Multilayer Ferrite Chip Beads

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

3 Material

HW	Refer to impedance curves for material differences
HS	
HM	
LM	
LL	
TS	

4 Impedance〔Ω〕

example	
150	15
101	100
102	1000

5 Characteristics

−	Standard Products

6 Packaging

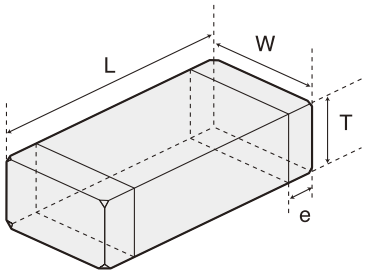
T	Tape & Reel

7 Internal code

△	Standard Products

△=Blank Space

外形寸法　EXTERNAL DIMENSIONS



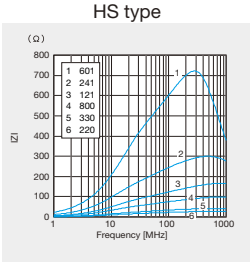
Type	L	W	T	e
BK0603 (0201)	0.60±0.03 (0.024±0.001)	0.30±0.03 (0.012±0.001)	0.30±0.03 (0.012±0.001)	0.15±0.05 (0.006±0.002)
BK1005 (0402)	1.00±0.05 (0.039±0.002)	0.50±0.05 (0.020±0.002)	0.50±0.05 (0.020±0.002)	0.25±0.10 (0.010±0.004)
BK1608 (0603)	1.6±0.15 (0.063±0.006)	0.8±0.15 (0.031±0.006)	0.8±0.15 (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

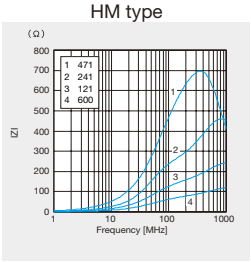
BK0603

HS type



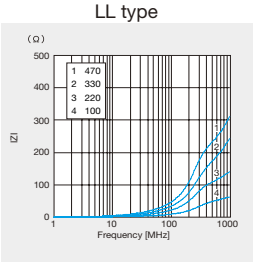
I max=200～500mA

HM type



I max=200mA

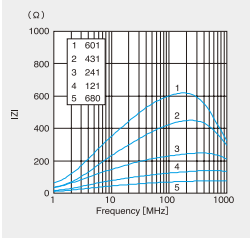
LL type



I max=150～200mA

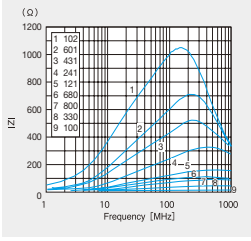
BK1005

HW type



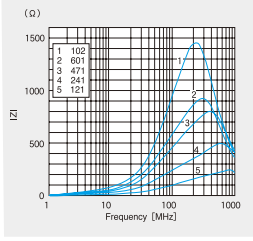
I max=300～500mA

HS type



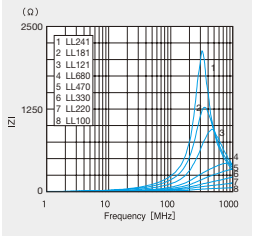
I max=300～1000mA

HM type



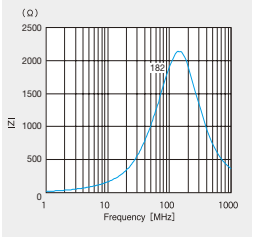
I max=150～300mA

LL type



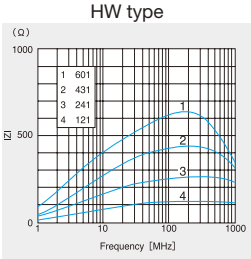
I max=250～500mA

LM type



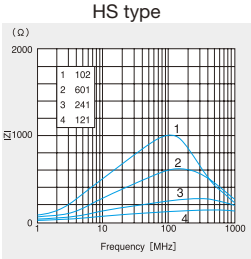
BK1608

HW type



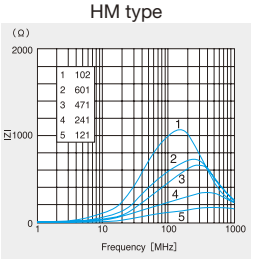
I max=300～600mA

HS type



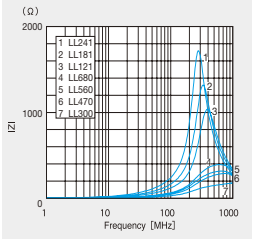
I max=300～1500mA

HM type



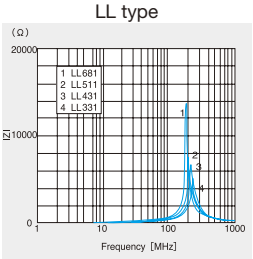
I max=200～350mA

LL type



I max=150～500mA

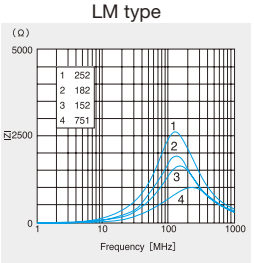
LL type



I max=150～500mA

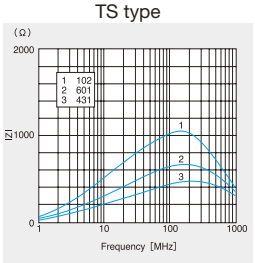
BK1608

LM type



I max=200 ～ 300mA

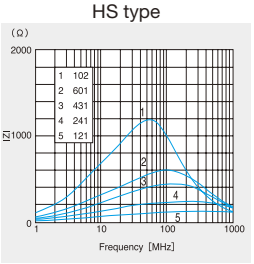
TS type



I max=300 ～ 400mA

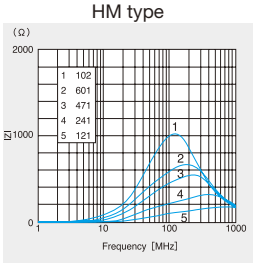
BK2125

HS type



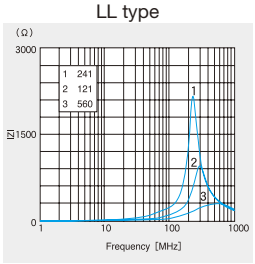
I max=300 ～ 1200mA

HM type



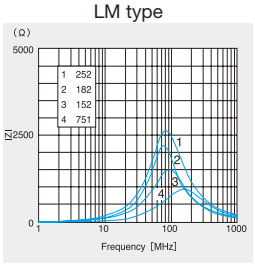
I max=400 ～ 800mA

LL type



I max=300 ～ 600mA

LM type



I max=200 ～ 400mA