

Semiconductors & Components

Products

Amorphous

- Noise Suppression - AMOBEADS®
- High Permeability Cores
- Noise Suppression - SMD-Type AMOBEADS®
- Noise Suppression - SPIKE KILLERS™ Cores
- Noise Suppression - AMOBEADS® with Lead
- Low Loss Saturable Cores
- Saturable Cores

Applications

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Featured Products



Home Products Amorphous Noise Suppression - AMOBEADS® with Lead



Noise Suppression - AMOBEADS® with Lead

Related Information

Application Notes Datasheet (*) Drawing How They Work

The amorphous noise suppression devices, AMOBEADS® and SPIKE KILLERS™, suppress rapid changes in current which could otherwise lead to electrical noise in many circuits. Unlike other noise reduction methods which absorb noise after it is created, amorphous noise suppression devices suppress the source of the noise. Because of their square-shaped magnetic hysteresis behavior, amorphous noise suppression devices have a very large inductance when the current crosses zero (i.e. changes sign). This large inductance effectively blocks any further current changes. During normal current flow, amorphous noise suppression devices have very low inductance. The reverse recovery phenomenon in semiconductor switching devices occurs when the current switches off. This phenomenon can lead to noise in the circuit. Amorphous noise suppression devices effectively and efficiently decrease the noise caused by the reverse recovery current.

AMOBEADS® are structurally optimized for use with single-turn windings. They are intended for applications where they are simply slipped over the leads of the components to be quieted.

SPIKE KILLERS™ are named for their effective suppression of current spikes in switching circuits. "SPIKE KILLERS" are small saturable cores which are usually wire wound. "SPIKE KILLERS" provide excellent noise suppression and protection of semiconductors.

STOP NOISE!

The amorphous noise suppression devices, AMOBEADS and SPIKE KILLERS, suppress rapid changes in current which could otherwise lead to electrical noise in many circuits. Unlike other noise reduction methods that absorb noise after it is created, amorphous noise suppression devices suppress the source of the noise.

Download "How AMOBEADS® Work"

(474KB)



Please feel free to contact us to discuss your application and to receive detailed information on the product of interest. For further information, please contact the Toshiba Advanced Materials Division:

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Product Guides

Description	O.D. (mm)A*	Length (mm) B*	Core Length (mm) C*	Lead Length (mm) D*	Lead Pitch (mm) E*	Lead Dia. (mm) F*	Total Flux (μWb)	AL Value (μH)
LB 4x2x8F	6.0 max	16.0 max	12.0 max	4.2 ± 0.5	14.0 ± 1.0	1.25 ± 0.1	4.8 min	16.0 min
LB 4x2x8U	6.0 max	20.0 max	12.0 max	4.2 ± 0.5	5.0 ± 1.0	1.25 ± 0.1	4.8 min	16.0 min