T Material

Power Ferrite for Low Losses Across a Wide Temperature Range

Magnetics introduces T, a new power ferrite material. T material is suitable for power transformers and inductors operating from 20 kHz to 750 kHz across a wide temperature range.

Popular sizes and shapes available include:

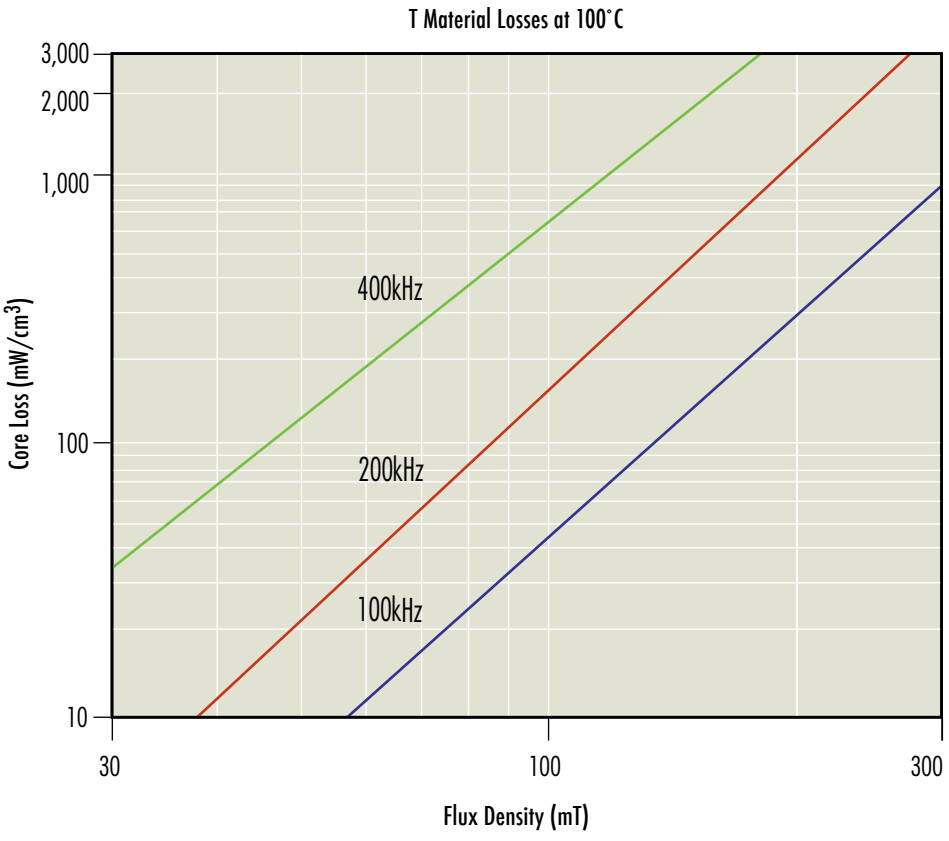
PQ20	EP13
PQ26	ETD44
PQ50	ETD59

Toroids	E cores
10 mm	18 mm
13 mm	25 mm
16 mm	35 mm
22 mm	55 mm
40 mm	65 mm

T material is a new power material designed for power transformers and inductors operating from 20 kHz to 750 kHz. Minimum AC losses of power ferrite materials, such as Magnetics' R, are realized within a narrow temperature range. T material exhibits minimum losses across a wide temperature range (30° to 110° C), making T ideal for a variety of applications that must meet efficiency targets at start up, may not always reach elevated temperatures, or must be consistent across temperature. T material is suitable for automotive applications, high efficiency (green) SMPS, temperature-sensitive circuits, ballasts and lighting applications, and hand held or mobile devices.

Characteristics of T Material

Property	Symbol	Conditions	Value
Initial permeability	μ_i	25°C; 10 kHz	3,000±25%
Recommended usable frequency	f		<750 kHz
Curie Temperature	T_c		220°C
Flux Density	B	25°C	530 mT
		100°C	410 mT



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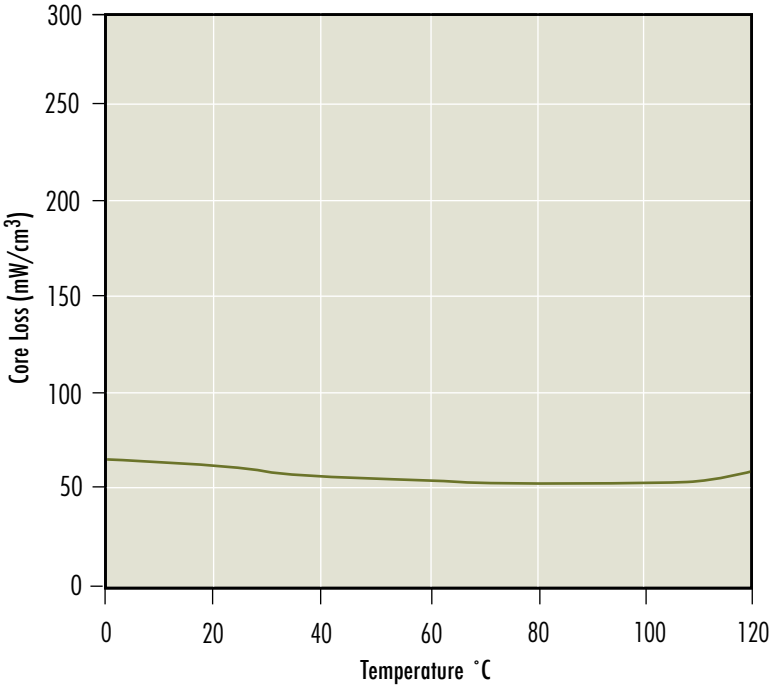
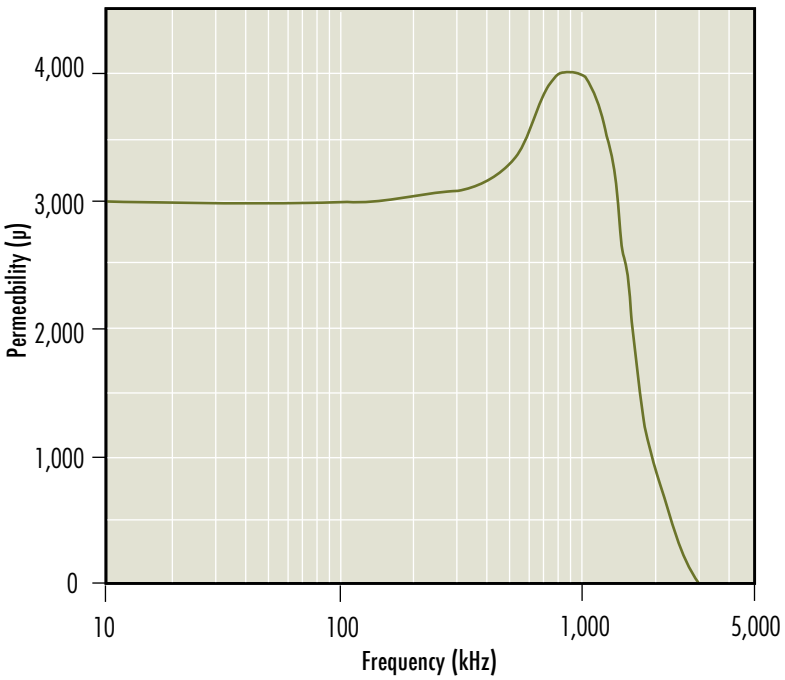
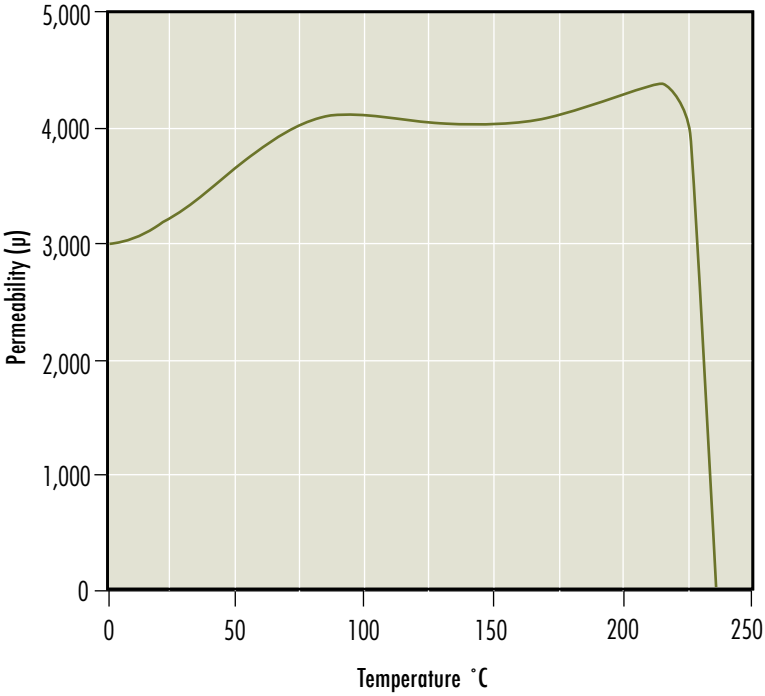
T Material Losses vs. Temperature 100 kHz, 100 mT



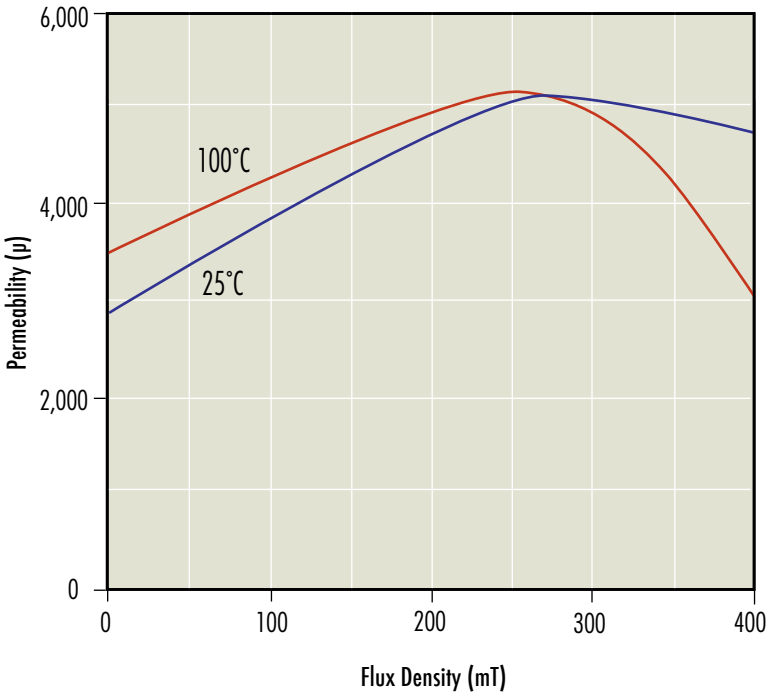
T Material Frequency Response



T Material Permeability vs Temperature



T Material Permeability vs. B



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