78 Material Data Sheet

A MnZn ferrite specifically designed for power applications for frequencies up to 200 kHz and low loss inductive applications to 500 kHz.

Available in 78 material:
RFID Rods
Toroids
Mated Parts

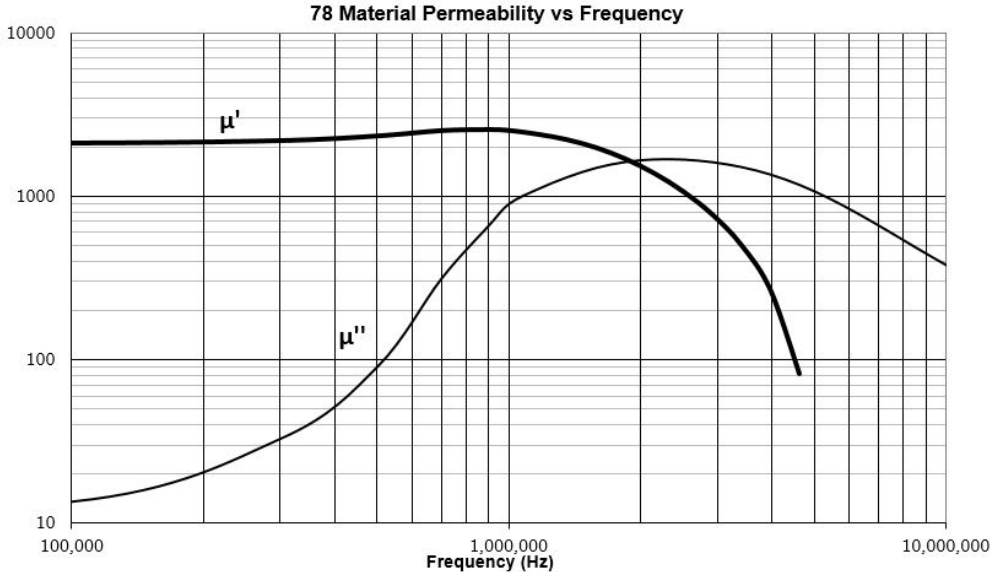
78 Material Characteristics

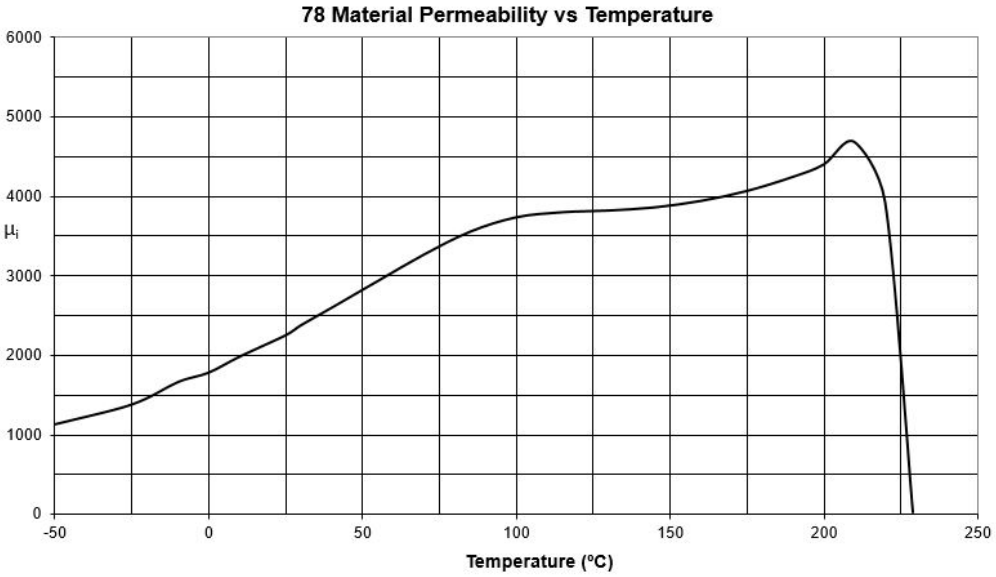
Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		μ_i	2300
Flux Density @ Field Strength	Gauss Oersted	B H	4800 5
Residual Flux Density	Gauss	B_r	1500
Coercive Force	Oersted	H_c	0.20
Loss Factor @ Frequency	10^{-6} MHz	Tan δ/ μ_i	3 0.1
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		1.0
Curie Temperature	°C	T_c	>200
Resistivity	ohm-cm	ρ	200

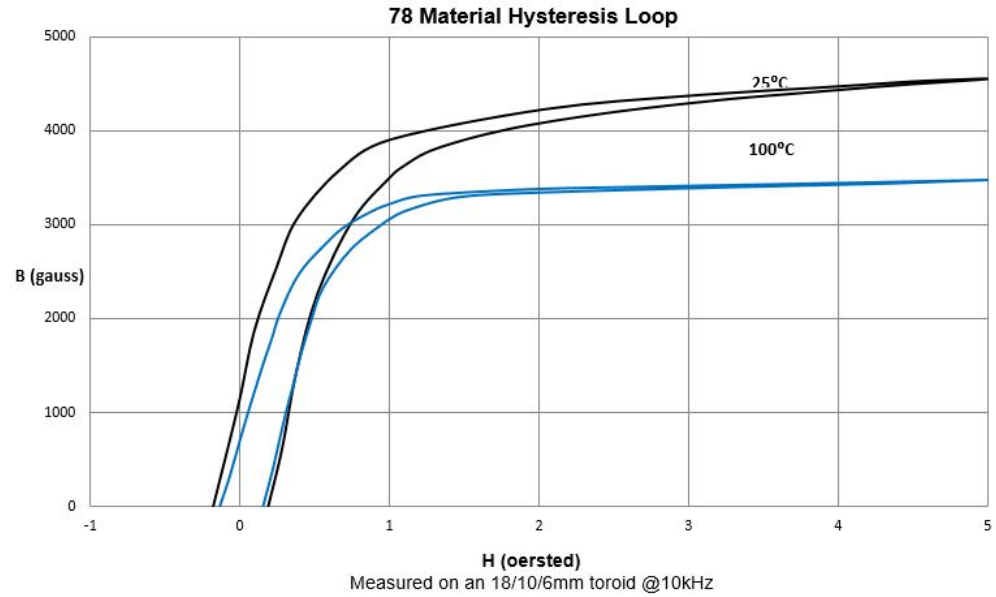
**** Characteristic curves are measured on standard Toroids (18/10/6 mm) at 25°C and 10 kHz unless otherwise indicated. Impedance characteristics are measured on standard shield beads (3.5/1.3/6.0 mm) unless otherwise indicated.

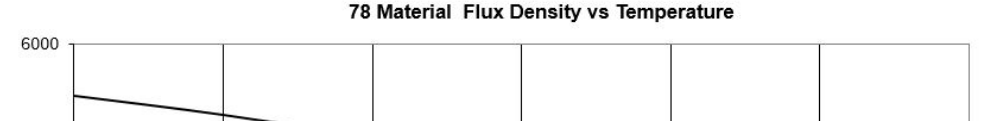
Material Safety Data Sheet (MSDS)

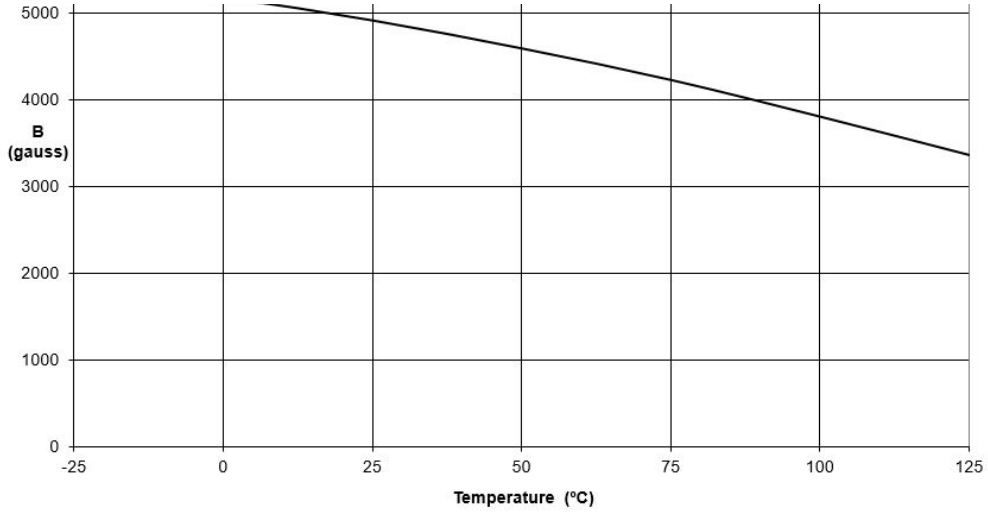
Click here to download Complex Permeability vs. Frequency (CSV)

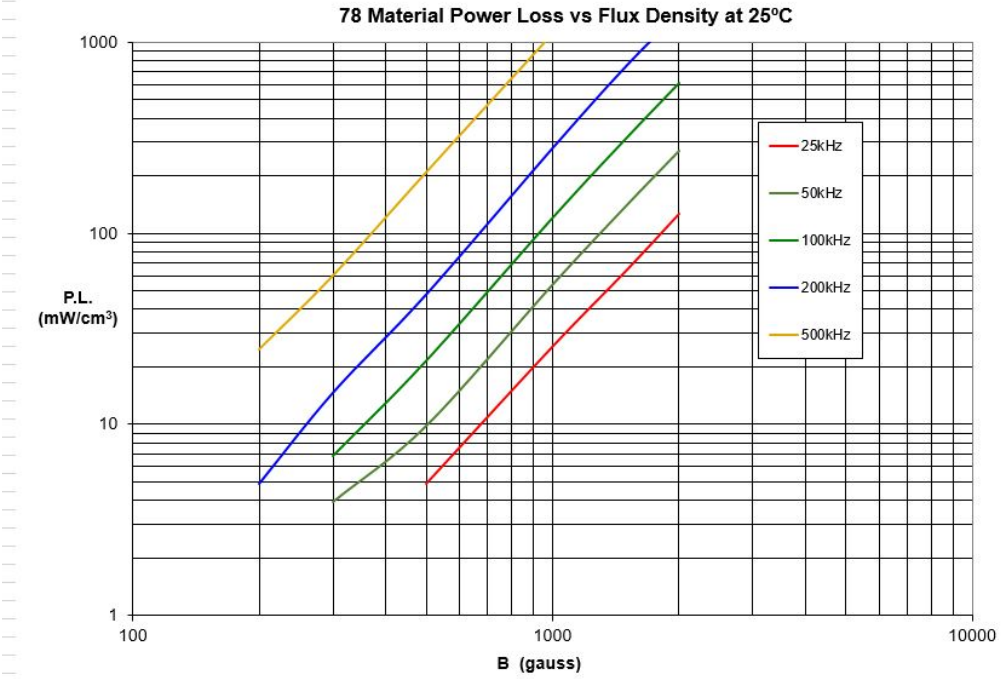


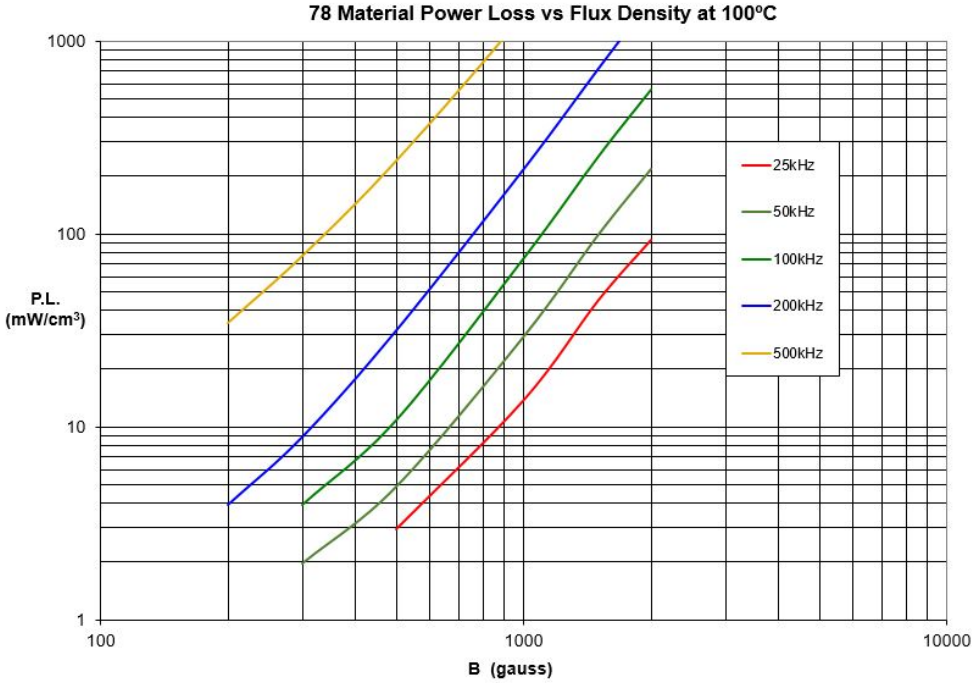


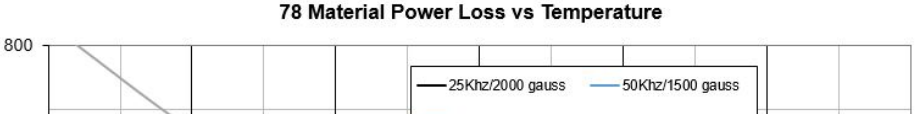


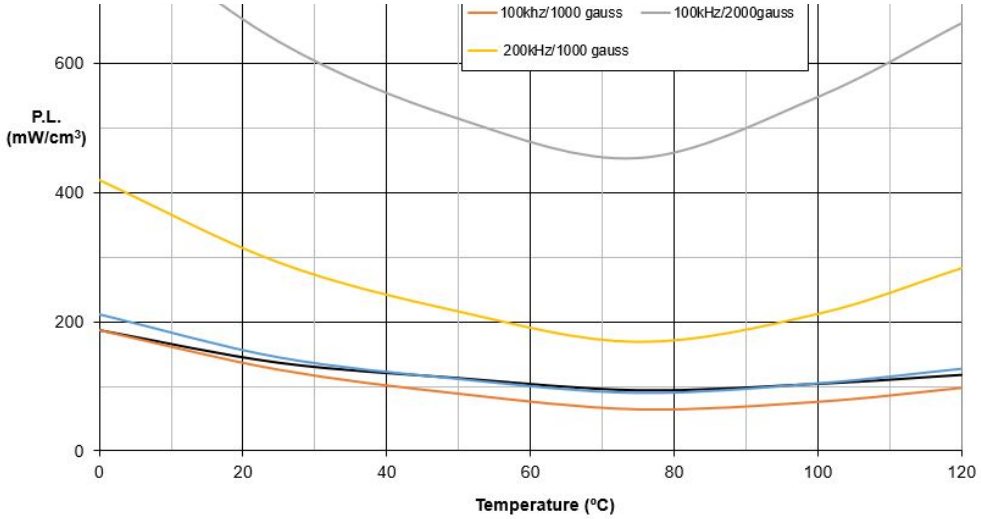



5000
4000
B
(gauss)
3000
2000
1000
0
-25
0
25
50
75
100
125
Temperature (°C)

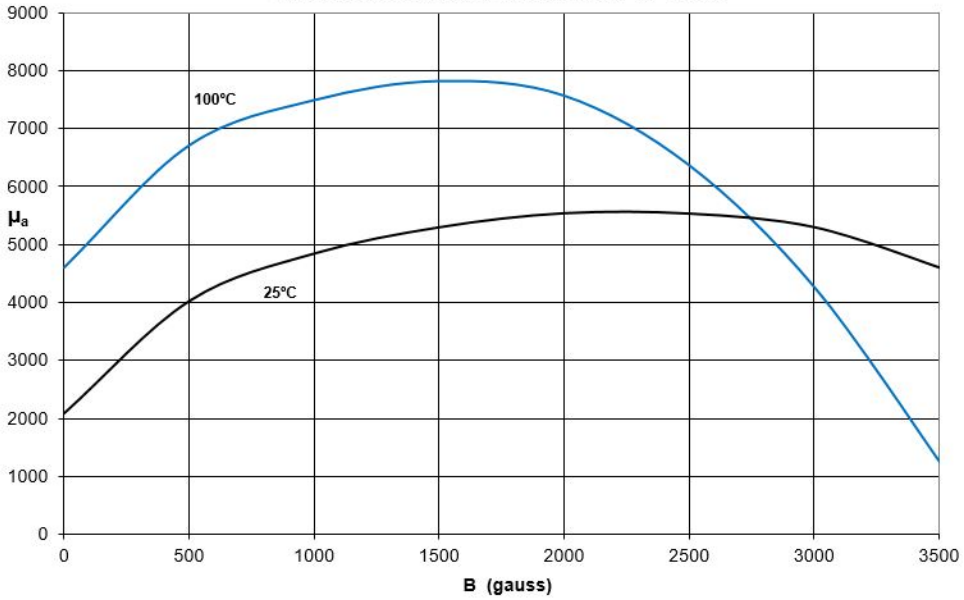

78 Material Power Loss vs Flux Density at 25°C
1000
100
P.L.
(mW/cm³)
10
1
100
1000
10000
B (gauss)
25kHz
50kHz
100kHz
200kHz
500kHz


78 Material Power Loss vs Flux Density at 100°C
1000
100
P.L.
(mW/cm³)
10
1
100
1000
10000
B (gauss)
25kHz
50kHz
100kHz
200kHz
500kHz

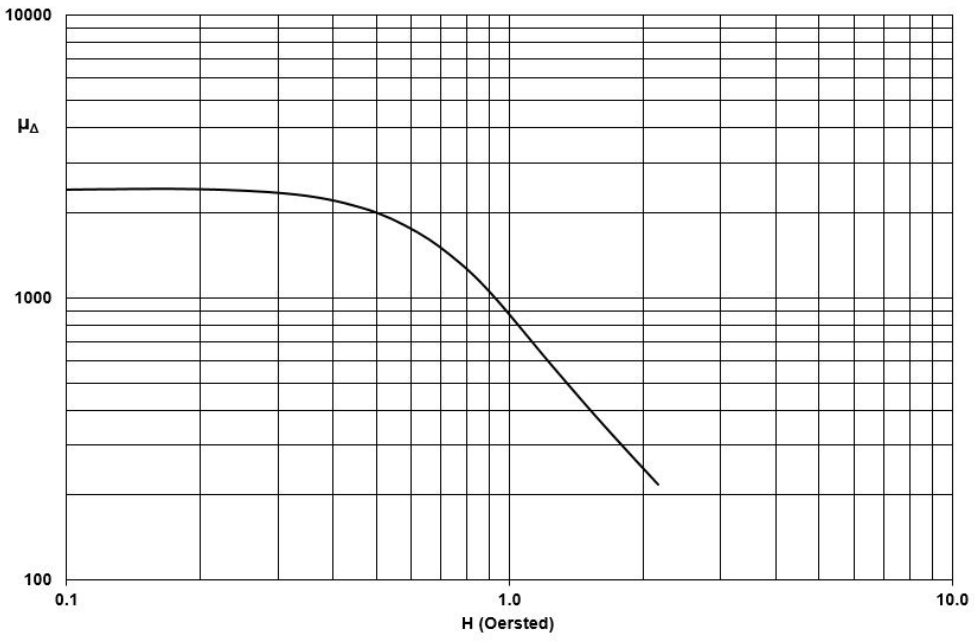

78 Material Power Loss vs Temperature
800
25Khz/2000 gauss
50Khz/1500 gauss



78 Material Amplitude Permeability at 10kHz



78 Material Incremental Permeability vs Field Strength



SDS

RoHS Compliant

ISO 9001 QUALITY MANAGEMENT

IATF 16949 AUTOMOTIVE MANAGEMENT

ITAR