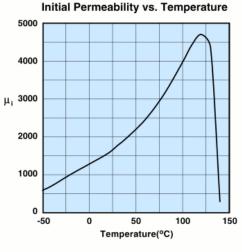
A MnZn ferrite designed specifically for EMI suppression applications from as low as 1 MHz up to 500 MHz. This material does not have the dimensional resonance limitations associated with conventional MnZn ferrite materials.

Round cable EMI suppression cores, round cable snap-its, flat cable EMI suppression cores, and flat cable snap-its are all available in 31 material.

Complex Permeability vs. Frequency 10000 μ'. 1000 μ'_s, μ''_s 100 10 105 107 10⁶ 10⁸ Frequency (Hz)

Measured on a 17/10/6mm toroid at 25°C using the HP 4284A and the HP 4291A.

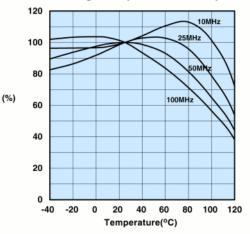


Measured on a 17/10/6mm toroid at 100kHz.

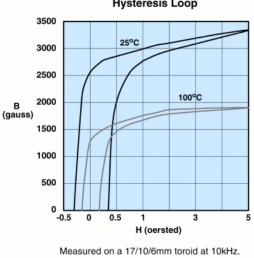
31 Material Characteristics:

Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		μ	1500
Flux Density	gauss	в	3400
@ Field Strength	oersted	н	5
Residual Flux Density	gauss	B,	2500
Coercive Force	oersted	Hc	0.35
Loss Factor	10-6	tan δ/μ,	20
@ Frequency	MHz		0.1
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		1.6
Curie Temperature	°C	To	>130
Resistivity	Ωcm	ρ	3x10 ³

Percent of Original Impedance vs. Temperature



Measured on a 2631000301 using the HP4291A.



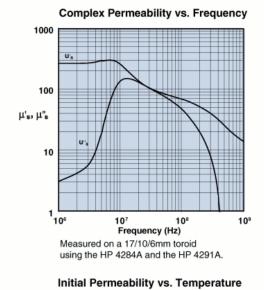
Hysteresis Loop

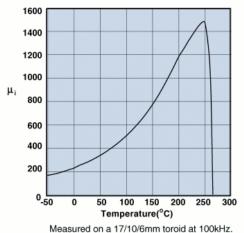
A new high frequency NiZn ferrite material, that combines a high saturation flux density and a high Curie temperature.

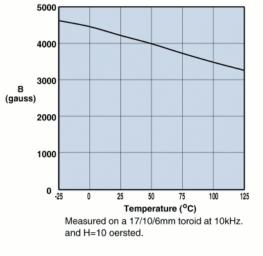
SM beads, PC beads and a range of rod cores are available in this material.

52 Material Specifications:

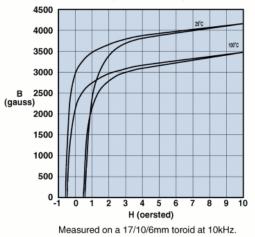
Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		μ	250
Flux Density	gauss	В	4200
@ Field Strength	oersted	н	10
Residual Flux Density	gauss	B,	2900
Coercive Force	oersted	H.	0.60
Loss Factor	10-6	tan δ/μ _i	45
@ Frequency	MHz		1.0
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		1.0
Curie Temperature	°C	Tc	>250
Resistivity	Ωcm	ρ	1x10 ⁹











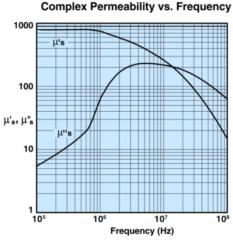
Flux Density vs. Temperature

This NiZn is our most popular ferrite for suppression of conducted EMI from 20 MHz to 250 MHz. This material is also used for inductive applications such as high frequency common-mode chokes.

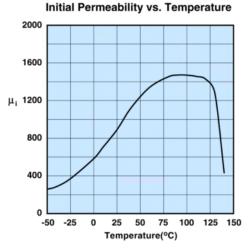
EMI suppression beads, beads on leads, SM beads, multi-aperture cores, round cable EMI suppression cores, round cable snap-its, flat cable EMI suppression cores, flat cable snap-its, miscellaneous suppression cores, bobbins, and toroids are all available in 43 material.

43 Material Characteristics:

Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		μ	800
Flux Density	gauss	в	2900
@ Field Strength	oersted	н	10
Residual Flux Density	gauss	B,	1300
Coercive Force	oersted	H。	0.45
Loss Factor	10-6	tan δ/μ;	250
@ Frequency	MHz		1.0
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		1.25
Curie Temperature	°C	Tc	>130
Resistivity	Ω cm	ρ	1x10 ⁵

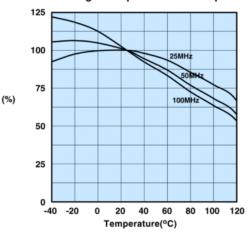


Measured on a 17/10/6mm toroid using the HP 4284A and the HP 4291A.

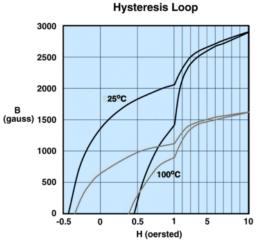


Measured on a 17/10/6mm toroid at 100kHz.

Percent of Original Impedance vs. Temperature



Measured on a 2643000301 using the HP4291A.



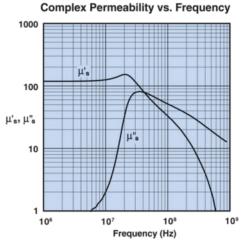
Measured on a 17/10/6mm toroid at 10kHz.

Available from www.Palomar-Engineers.com

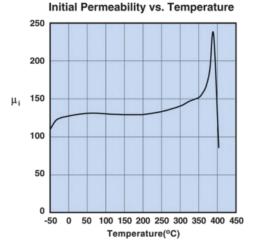
A high frequency NiZn ferrite developed for a range of inductive applications up to 25 MHz. This material is also used in EMI applications for suppression of noise frequencies above 200 MHz.

EMI suppression beads, beads on leads, SM beads, wound beads, multi-aperture cores, round cable snap-its, rods, antenna/RFID rods, and toroids are all available in 61 material.

Strong magnetic fields or excessive mechanical stresses may result in irreversible changes in permeability and losses.



Measured on a 19/10/6mm toroid using the HP 4284A and the HP 4291A.

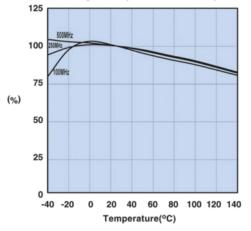


Measured on a 19/10/6mm toroid at 100kHz.

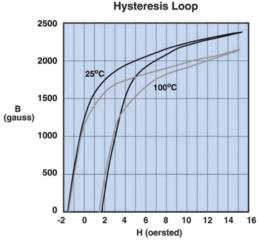
61 Material Characteristics:

Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		μ	125
Flux Density	gauss	в	2350
@ Field Strength	oersted	н	15
Residual Flux Density	gauss	B,	1200
Coercive Force	oersted	Hc	1.8
Loss Factor	10-6	tan δ/μ,	30
@ Frequency	MHz		1.0
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		0.10
Curie Temperature	°C	Tc	>300
Resistivity	Ωcm	ρ	1x10 ⁸

Percent of Original Impedance vs. Temperature



Measured on a 2661000301 using the HP4291A.



Measured on a 19/10/6mm toroid at 10kHz.

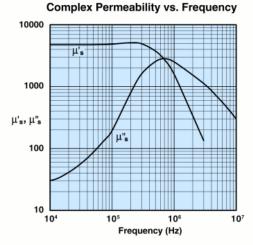
Available from www.Palomar-Engineers.com

A high permeability MnZn ferrite intended for a range of broadband and pulse transformer applications and common-mode inductor designs.

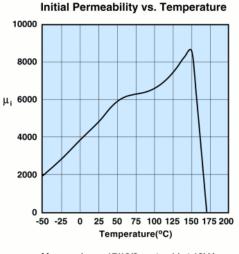
Toroidal cores are available in 75 material.

75 Material Characteristics:

Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		μ	5000
Flux Density @ Field Strength	gauss oersted	B H	4300 5
Residual Flux Density	gauss	B,	1400
Coercive Force	oersted	Hc	0.16
Loss Factor @ Frequency	10 ⁻⁶ MHz	tan δ/μ _i	15 0.1
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		0.6
Curie Temperature	°C	Tc	>140
Resistivity	Ω cm	ρ	3x10 ²

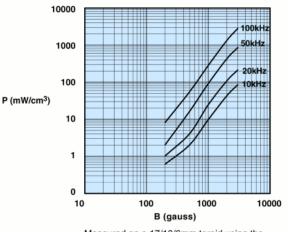


Measured on a 17/10/6mm toroid using the HP 4284A and the HP 4291A.

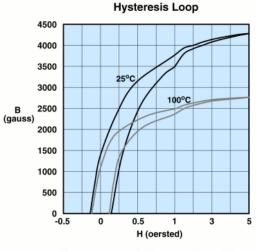


Measured on a 17/10/6mm toroid at 10kHz.





Measured on a 17/10/6mm toroid using the Clarke Hess 258 VAW at 100°C.



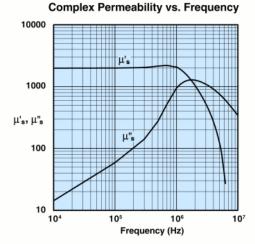
Measured on a 17/10/6mm toroid at 10kHz.

A MnZn ferrite for use in a wide range of high and low flux density inductive designs for frequencies up to 100 kHz.

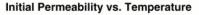
Pot cores, E&I cores, U cores, rods, toroids, and bobbins are all available in 77 material.

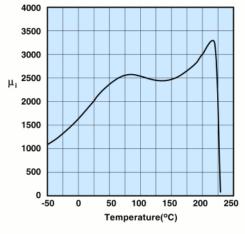
77 Material Characteristics:

Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		μ	2000
Flux Density	gauss	в	4900
@ Field Strength	oersted	н	5
Residual Flux Density	gauss	B,	1800
Coercive Force	oersted	Hc	0.30
Loss Factor	10-6	tan δ/μ	15
@ Frequency	MHz		0.1
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		0.7
Curie Temperature	°C	To	>200
Resistivity	Ω cm	ρ	1x10 ²



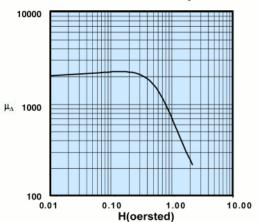
Measured on an 18/10/6mm toroid using the HP 4284A and the HP 4291A.



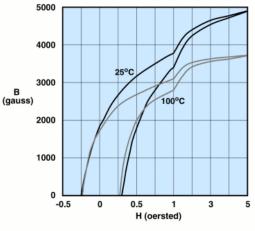


Measured on an 18/10/6mm toroid at 100kHz.

Incremental Permeability vs. H



Hysteresis Loop



Measured on an 18/10/6mm toroid at 10kHz.