

A high permeability Mn-Zn ferrite suitable for application in pulse and broad band transformers, common-mode chokes and Inductors. Available in a wide variety of ring cores.

Material characteristic	symbol	Unit	N12
Initial Permeability < 10 KHz, 0.1mT	μ_i		12000 $\pm$ 30%
Saturation Flux Density at H=15 Oe	B _{ms}	Gauss (mT)	3900 (390)
Residual Flux Density	B _r	Gauss (mT)	800 (80)
Coercive Force	H _c	Oersteds	0.09
Curie Temperature	T _c	°C	> 110
Optimum Frequency range f max	f	MHz	0.1
DC resistivity	ρ	Ω -m	1
Relative loss Factor	$\times 10^6$	$\tan \delta / \mu_i$	at 10 KHz < 3 at 100 KHz < 20
Mass Density	d	g / cm ³	4.8 ~ 4.9
Temperature factor 25°C ~ 70 °C	αF	$\times 10^{-6} / K$	≤ 1
Disaccommodation factor	DF	$\times 10^{-6}$	< 2

Parameter Shown are Typical values based upon measurements use Toroidal core with OD=25m/m , ID= 15m/m , Ht=15m/m

