

Nickel-Zinc Ferrites Specifications

Parameter	Standard Conditions of Test	Unit	F19	F13	F14	F16	F25	F29	
Material Ordering code		-	38	30	31	32	34	35	
Initial Permeability	B<0.1mT 10kHz 25°C	-	1000 +20%	650 +20%	220 +20%	125 +20%	50 +20%	12 +20%	
Saturation Flux Density (typical)	H=796 A/m 25°C =10 Oe	mT	260	320	350	340	-	-	
Loss Factor (maximum)	B→0 25°C	250kHz	-	50	-	-	-	-	
		500kHz	130	65	40	-	-	-	
		1MHz	350	130	42	60	50	-	
		2MHz	-	-	50	-	50	-	
		3MHz	-	-	-	-	55	-	
		5MHz	-	-	-	65	65	-	
		10MHz	10 ⁻⁶	-	-	-	100	75	100
		15MHz	-	-	-	-	100	-	-
		20MHz	-	-	-	-	125	-	-
		40MHz	-	-	-	-	300	-	-
100MHz	-	-	-	-	-	-	200		
200MHz	-	-	-	-	-	-	1000		
Temperature Factor	B<0.25mT 10kHz +25°C to +55°C	10 ⁻⁶ / °C	3-6.5	1.5	12-30	20-50	10-15	50	
Curie Temperature (minimum)	B<0.25mT 10kHz	°C	120	180	270	270	450	500	
Resistivity (typical)	1 V/cm 25°C	ohm - cm	-	3X10 ⁴	5 ⁵ 10	5 ⁵ 10	5 ⁵ 10	5 ⁵ 10	

F25 & F29 are permivar ferrites and undergo irreversible changes of characteristic (μ increases and loss factors become much greater, especially at high frequencies) if subjected to strong magnetic fields or mechanical shock.

Data is derived from measurements 30mm x 19mm x 6.5mm toroidal samples for F19, F13 & F14.
Data is derived from measurements 14.5mm x 3.8mm x 12mm toroidal samples for F16, F25 & F29.
These values cannot be directly transferred to products of another shape and size.
The product related data can be taken only from the relevant product specifications.