

F25 F28 F29 Special Grades

Material Specifications

Material Type: Nickel-Zinc Ferrite

Properties: *Perminvar
*Very high Q at high frequency

Frequency range: 1MHz + depending on material grade

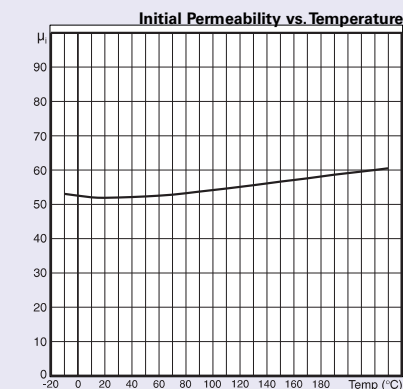
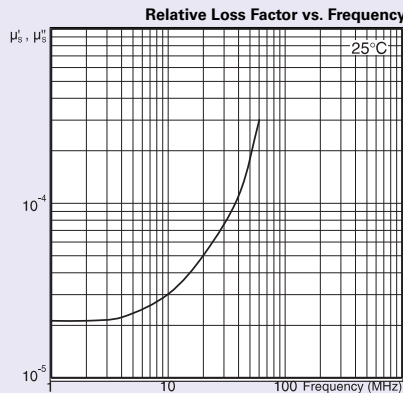
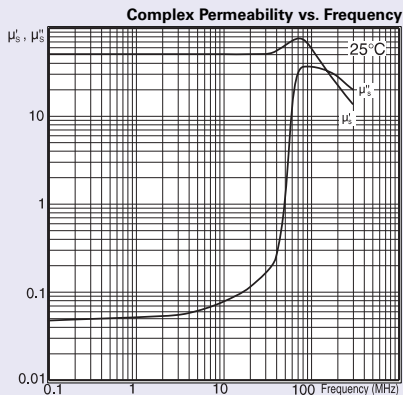
Typical Applications: Aerial rods and high frequency tuned circuits.

Available core shapes: On request.

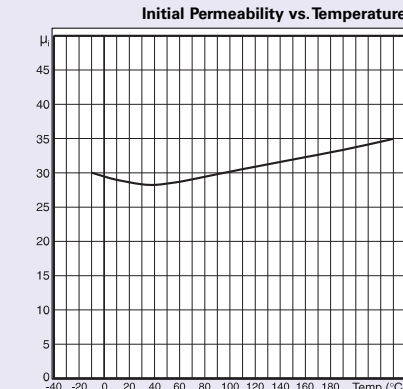
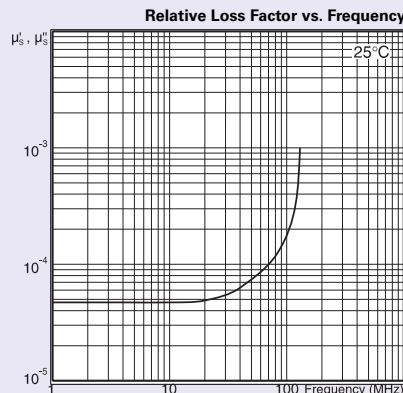
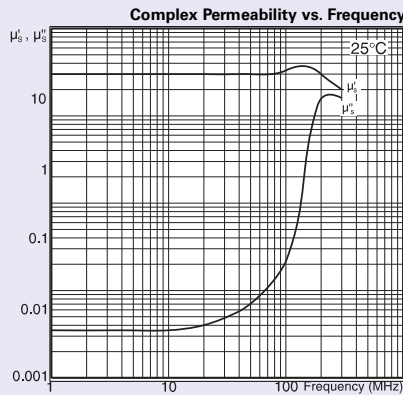
Note: Perminvar ferrites undergo irreversible changes of characteristics if subject to strong magnetic fields or mechanical shock.

Parameter	Symbol	Standard Conditions of test	Unit	F25	F28	F29
Initial Permeability (nominal)		B<0.1mT 10kHz 25°C	-	50 ±20%	30 ±20	12 ±20
Loss Factor (maximum)	$\frac{\tan \delta_{(f+\theta)}}{\mu_1}$	B<0.10mT	10 ⁶	50	-	-
		1MHz		50	-	-
		2MHz		55	-	-
		3MHz		65	-	-
		5MHz		75	80	100
		10MHz		100	-	-
		15MHz		125	-	-
		20MHz		300	-	-
		40MHz		-	250	200
100MHz	-	-	1000			
200MHz	-	-	-	-		
Curie Temperature (minimum)	θ_C	B<0.10mT 10kHz	°C	450	500	500
Temperature Factor	$\frac{\Delta\mu}{\mu_1^2 \Delta T}$	B<0.10mT +25°C to +55°C 10kHz	°C	15	10 to	3050
Resistivity (typical)	ρ	1 V/cm 25°C	ohm-cm	10 ⁵	10 ⁵	10 ⁵

F25



F28



F29

