

				Short and medium wave antennae, EMI suppression, High frequency inductors and transformers				Short or VHF antennae, HF inductors			
Parameter	Symbol	Standard Conditions of test		Unit	F19	F13	F14	F16	F25*	F29*	
Initial Permeability (nominal)	μ_i	B<0.1mT 10kHz	25°C	-	1000 ± 20%	650 ± 20%	220 ± 20%	125 ± 20%	50 ± 20%	12 ±20%	
Saturation Flux Density (typical)	B_{sat}	H=796 A/m = 10Oe Static	25°C	mT	260	320	350	340	-	-	
Remanent Flux Density (typical)	B_r	H→0 (from near Saturation) 10kHz	25°C	mT	165	141	217	260	-	-	
Coercivity (typical)	H_c	B→0 (from near Saturation) 10kHz	25°C	A/m	53	59	172	200	-	-	
Loss Factor (maximum)	$\frac{\tan \delta_{(r+e)}}{\mu_i}$	B<0.10mT	100kHz	10 ⁻⁶	-	-	-	-	-	-	
		25°C	250kHz		-	50	-	-	-	-	-
			400kHz		-	-	-	-	-	-	-
			500kHz		130	65	40	-	-	-	-
			1MHz		350	130	42	60	50	-	-
			2MHz		-	-	50	-	50	-	-
			3MHz		-	-	-	-	55	-	-
			5MHz		-	-	-	65	65	-	-
			10MHz		-	-	-	100	75	100	-
			15MHz		-	-	-	-	100	-	-
			20MHz		-	-	-	-	125	-	-
			40MHz		-	-	-	-	300	-	-
	100MHz	-	-	-	-	-	-	200			
	200MHz	-	-	-	-	-	-	1000			
Temperature Factor	$\frac{\Delta \mu}{\mu_i^2 \cdot \Delta T}$	B<0.10mT +25°C to +55°C	10kHz	10 ⁻⁶ / °C	3 to 6.5	1.5	12 to 30	20 to 50	10 to 15	50	
Curie Temperature (minimum)	Θ_c	B<0.1mT 10kHz		°C	120	180	270	270	450	500	
Resistivity (typical)	ρ		1 V/cm 25°C	ohm- cm	-	3x10 ⁴	10 ⁵	10 ⁵	10 ⁵	10 ⁵	

* These are permivar ferrites and undergo irreversible changes of characteristics (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 on toroidal cores.

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.

