



			INDUCTORS & POWER TRANSFORMERS					EMI/RFI FILTERS & BROADBAND TRANSFORMERS		LINEAR FILTERS & SENSORS		
MATERIAL			L	R	P	F	T	J	W	C	E	V
Initial Permeability	μ_i		900 $\pm 25\%$	2,300 $\pm 25\%$	2,500 $\pm 25\%$	3,000 $\pm 20\%$	3,000 $\pm 25\%$	5,000 $\pm 20\%$	10,000 $\pm 30\%$	900 $\pm 25\%$	2,000 $\pm 25\%$	2,300 $\pm 25\%$
Maximum Usable Frequency (50% roll-off)	f	MHz	± 3	≤ 1.8	≤ 1.8	≤ 1.5	≤ 1.5	≤ 0.7	≤ 0.5	< 8	< 3	< 1.5
Relative Loss Factor $\times 10^{-6}$ 25°C		$\tan \delta / \mu_{oc}$						≤ 15 (100 kHz)	< 7 (10 kHz)	10 @ 300 kHz max	3 @ 100 kHz typ.	≤ 5 @ 100 kHz max
Curie Temperature	Tc	°C	> 300	> 210	> 210	> 210	> 220	> 145	> 135	> 200	> 160	> 170
Flux Density @ 1,194 A/m (15 Oe) 25°C	Bm	G	4,200	4,700	4,700	4,700	5,300	4,300	3,900	3,800	3,600	4,400
		mT	420	470	470	470	530	430	390	380	360	440
Remanence 25°C	Br	G	1,500	1,600	1,600	1,500	1,500	1,000	800	1,500	700	1,500
		mT	150	160	160	150	150	100	80	150	70	150
Power Loss (PL) Sine Wave, in mW/cm ³ (typical)	25 kHz 200 mT (2,000 G)	@25°C		90	180	60	80					
		@60°C		65	110	55	75					
		@100°C		60	65	90	70					
		@120°C		65	110	125	75					
	100 kHz 100 mT (1,000 G)	@25°C		87	70	70	65					
		@60°C		64	50	65	57					
		@100°C		58	65	110	55					
		@120°C		64	45	150	58					
	500 kHz 50 mT (500 G)	@25°C	290									
		@60°C	150									
		@100°C	115	175	300		150					
		@120°C	130									
Resistivity	ρ	$\Omega \cdot m$	10	5	5	5	5	0.5	0.1	2	2	1
Density	δ	g/cm ³	4.8	4.8	4.8	4.8	4.8	4.8	4.9	4.7	4.7	4.8