

Property	Material	Symbol	Unit	L15	L8	J70	J40	M3	M1	M7	S1W	S1	S5
Initial permeability		U <sub>i</sub>		2100 +20%	1500 +20%	620 +20%	440 +20%	400 +20%	290 +20%	160 +20%	110 +20%	120 +20%	75 +20%
Relative loss factor		tan δ <sub>u</sub>	× 10 <sup>-5</sup>	<2.3 0.1MHZ	<2.8 0.3MHZ	<3.89 0.7MHZ	<9.64 1MHZ	<10.9 1.5MHZ	<9.84 1MHZ	<44.6 2MHZ	<10.4 1.5MHZ	<6.83 1.5MHZ	<42.3 3.0MHZ
Saturation flux density		B <sub>s</sub>	Gauss	2450	2550	2500	1800	1950	1500	2205	1625	1625	1375
Residual flux density		B <sub>r</sub>	Gauss	1100	1225	1625	700	1200	1100	1700	1100	1125	1150
Coercive force		H <sub>c</sub>	Oe	0.1	0.225	0.725	0.55	0.5	0.7	1.04	1.1	1.275	1.625
Curie temperature		T <sub>c</sub>	°C	>100	>120	>150	>120	>120	>130	>150	>200	>200	>200
Disaccommodation factor		DF	× 10 <sup>-3</sup>	19	11.8	14.4	9.11	13.0	13.9	1.89	7.31	11.7	8.04
Density		d	g/cm <sup>3</sup>	>4.7	>5.0	>4.8	>4.8	>4.7	>4.7	>4.6	>4.6	>4.3	>4.5
Resistivity		ρ	MΩ-cm	19	19	5.7	8	19	14	19	19	18	23

NOTE: 1. Test core size: T-30.8<sub>±</sub>×18.4<sub>±</sub>×7.5  
2. Winding method: 0.5U.E.W. 47Ts  
3. Temperature: 25°C  
4. Initial permeability test frequency: 10KHZ 0.8mA