

# Ferrite Material Properties



	Material Grade	$\mu_{iac}$ +/-25%	Working Freq	Bms	Brms	Hcms	Tc	$\alpha\mu'$	Tan $\sigma$ / $\mu_{iac}$	g/cm <sup>3</sup>
			MHz	Guass	Guass	Oe	°C	$\times 10^{-6}/^{\circ}\text{C}$	$\times 10^{-6}$	
Axial Series	LY 5E	15	10 - 120	3000	1600	15.00	> 300	110	< 500 @ 10 MHz	4.6
									< 1000 @ 120 MHz	
	LY 11	20	3.0 - 80	2900	1800	10.00	> 300	80	< 220 @ 3 MHz	4.6
									< 500 @ 80 MHz	
Choke Series	LY 9	50	0.5 - 30	3400	1900	5.5	> 300	60	< 90 @ 0.5 MHz	4.8
									< 280 @ 30 MHz	
	LY 1C	250	0.1 - 2.0	3000	1500	1.25	> 130	14	< 35 @ 0.1 MHz	5.0
									< 110 @ 0.2 MHz	
	LY 1	300	0.1 - 2.0	2500	1300	0.8	> 150	8	< 20 @ 0.1 MHz	4.7
									< 100 @ 2 MHz	
	LY 2	50	0.5 - 20	3200	1800	2.5	> 300	9	< 140 @ 0.5 MHz	4.7
									< 200 @ 20 MHz	
	LY 3	100	0.5 - 10	2800	1700	2.0	> 250	45	< 25 @ 0.5 MHz	4.7
									< 180 @ 10 MHz	
	LY 4	400	0.1 - 1.5	3300	1200	0.85	> 150	7	< 20 @ 0.1 MHz	4.9
									< 80 @ 1.5 MHz	
	LY 5	850	0.1 - 1.5	3100	1100	0.5	> 150	3	< 15 @ 0.1 MHz	4.9
									< 280 @ 1.5 MHz	
	LY 6	1200	0.01 - 0.5	2700	1100	0.2	> 100	4	< 10 @ 0.01 MHz	4.7
									< 60 @ 0.5 MHz	
	LY 8	200	0.3 - 7.0	3300	1700	0.6	> 250	40	< 160 @ 0.3 MHz	5.0
									< 350 @ 7 MHz	
	LY 1A	125	0.4 - 20	3400	1900	3.6	> 300	40	< 25 @ 0.4 MHz	4.7
									< 180 @ 20 MHz	
	LY 1B	500	0.1 - 2.0	2800	1200	0.5	> 120	15	< 15 @ 0.1 MHz	4.8
									< 100 @ 2.0 MHz	
	LY 1D	100	0.3 - 15	3800	1500	3.3	> 300	20	< 400 @ 0.3 MHz	4.8
									< 850 @ 15 MHz	
LY 1F	17	10 - 80	2700	1700	19	> 300	70	< 400 @ 10 MHz	4.7	
								< 900 @ 80 MHz		
LY 2F	30	3.0 - 70	3100	1700	8.0	> 300	70	< 80 @ 30 MHz	4.8	
								< 400 @ 70 MHz		
LY 2M	300	0.1 - 2.0	2500	1300	0.8	> 150	8	< 20 @ 0.1 MHz	4.7	
								< 110 @ 2.0 MHz		
LY GB	350	0.1 - 2.0	3300	1400	0.7	> 150	25	< 15 @ 0.1 MHz	4.9	
								< 80 @ 2.0 MHz		
EMI Series	LY 3A	250	0.1 - 2.0	3000	1300	0.7	> 150	25	< 20 @ 0.1 MHz	4.9
									< 65 @ 2.0 MHz	
	LY 3B	300	0.1 - 2.0	3000	1300	0.7	> 150	25	< 20 @ 0.1 MHz	4.9
									< 65 @ 2.0 MHz	
	LY 5B	750	0.01 - 0.7	2700	1000	0.35	> 120	3	< 15 @ 0.01 MHz	4.9
									< 60 @ 0.7 MHz	
	LY 6A	800	0.1 - 0.5	2800	1100	0.4	> 100	5	< 15 @ 0.1 MHz	4.9
									< 60 @ 0.5 MHz	
Linear Series	LY 8B	50	0.5 - 20	3200	1800	2.5	> 300	9	< 140 @ 0.5 MHz	4.7
									< 400 @ 20.0 MHz	
	LY 9D	60	1.0 - 50	3700	2300	4.0	> 300	80	< 150 @ 1.0 MHz	4.8
								< 500 @ 50.0 MHz		
IFT Series	LY 3L	300	0.1 - 20	3000	1300	0.7	> 150	25	< 20 @ 0.1 MHz	4.9
									< 65 @ 2.0 MHz	
	LY 5L	750	0.01 - 0.7	2700	1000	0.35	> 120	3	< 15 @ 0.01 MHz	4.9
								< 60 @ 0.7 MHz		
Air Coil Series	LY 6L	1200	0.01 - 0.5	2700	1100	0.2	> 100	4	< 10 @ 0.01 MHz	4.7
									< 60 @ 0.5 MHz	
	AM	300	0.1 - 2.0	2500	1300	0.8	> 150	8	< 20 @ 0.1 MHz	4.7
								< 110 @ 2.0 MHz		
	FM	50	0.5 - 20.0	3200	1800	2.5	> 300	9	< 140 @ 0.5 MHz	4.7
								< 400 @ 20 MHz		
	LYA	0								