



## SUMMARY OF TYPICAL FERRITE PROPERTIES

### Mn-Zn FERRITES

Property	Symbol	Unit	<u>MN67</u>	<u>MN80C</u>	<u>MN8CX</u>	<u>MN30</u>	<u>MN60</u>	<u>MN100</u>	<u>BT100*</u>	<u>MC25*</u>	<u>MC15K*</u>
Initial Permeability	$\mu_i$	-	1200	2050	3100	4300	6500	9,000	4700	9500	15,000
Maximum Permeability	$\mu_m$	-	7500	5000	3700	7500	8500	11,500	9000	12,500	20,000
Saturation Flux Density	B <sub>s</sub>	Gauss	5250	4900	4500	4400	4500	4700	4500	4100	4100
Remanent Flux Density	B <sub>r</sub>	Gauss	2100	1600	850	750	800	600	2800	900	800
Coercive Force	H <sub>c</sub>	Oersted	0.15	0.18	0.20	0.07	0.08	0.03	0.10	0.06	0.07
Curie Temperature	T <sub>c</sub>	°C	285	230	195	170	170	170	175	125	120
dc Volume Resistivity	$\rho$	ohm-cm	250	1600	1200	150	500	200	500	35	10

\* available only in fired-to-size parts

### Ni-Zn FERRITES

Property	Symbol	Unit	<u>N40</u>	<u>C2075</u>	<u>XTH2</u>	<u>C2050</u>	<u>XCK</u>	<u>C2025</u>	<u>CM48</u>	<u>C2010</u>	<u>CM400</u>	<u>CMD10</u>	<u>CN20</u>	<u>CN20B</u>	<u>CMD5005</u>
Initial Permeability	$\mu_i$	-	15	50	80	100	125	175	190	340	400	625	925	1375	2100
Maximum Permeability	$\mu_m$	-	50	270	440	600	350	850	1300	1500	1600	3000	5000	4100	5500
Maximum Flux Density	B <sub>m</sub>	Gauss	2500	3000	3600	3700	2500	3900	4400	3900	4600	4300	4000	3500	3300
Remanent Flux Density	B <sub>r</sub>	Gauss	950	950	1200	2300	650	2500	3000	2800	2400	2900	2600	2100	1300
Coercive Force	H <sub>c</sub>	Oersted	8.00	2.60	2.00	2.00	0.95	1.40	1.00	0.70	0.65	0.36	0.20	0.20	0.12
Curie Temperature	T <sub>c</sub>	°C	600	420	300	340	400	270	410	245	300	250	185	160	130
dc Volume Resistivity	$\rho$	ohm-cm	10 <sup>10</sup>	10 <sup>9</sup>	10 <sup>8</sup>	10 <sup>9</sup>	10 <sup>9</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>7</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>8</sup>	10 <sup>10</sup>