



# Ceramic Magnetics, Inc.

A Thomas & Skinner Company

## SUMMARY OF TYPICAL FERRITE PROPERTIES

### *Mn-Zn FERRITES*

<u>Property</u>	<u>Symbol</u>	<u>Unit</u>	<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	Bs	Gauss	5250	4900	4500	4400	4500	4700	4500	4100	4100
Remanent Flux Density	Br	Gauss	2100	1600	850	750	800	600	2800	900	800
Coercive Force	Hc	Oersted	0.15	0.18	0.2	0.07	0.08	0.03	0.1	0.06	0.07
Curie Temperature	Tc	°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*

<u>Property</u>	<u>Symbol</u>	<u>Unit</u>	<u>N40</u>	<u>C2075</u>	<u>C2050</u>	<u>C2025</u>	<u>C2010</u>	<u>CM400</u>	<u>CMD10</u>	<u>CN20</u>	<u>CN20B</u>	<u>CMD5005</u>
Initial Permeability	$\mu_i$	-	15	35	100	175	340	400	625	800	1375	2100
Maximum Permeability	$\mu_m$	-	50	150	390	850	1500	1600	3000	4500	4100	5500
Maximum Flux Density	B <sub>M</sub>	Gauss	1600	2700	3400	3900	3900	4600	4300	3800	3500	3300
Remanent Flux Density	Br	Gauss	700	1800	2400	2500	2800	2400	2900	2700	2100	1300
Coercive Force	Hc	Oersted	7.5	7	3	1.4	0.7	0.65	0.36	0.4	0.2	0.12
Curie Temperature	Tc	°C	510	420	340	270	245	300	250	170	160	130
dc Volume Resistivity	$\rho$	ohm-cm	10 <sup>10</sup>	10 <sup>8</sup>	10 <sup>7</sup>	10 <sup>10</sup>	10 <sup>7</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>6</sup>	10 <sup>8</sup>	10 <sup>10</sup>

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