Ceramic Magnetics, Inc.
A National Magnetics Group Company

SUMMARY OF TYPICAL FERRITE PROPERTIES

Mn-Zn FERRITES

Property	Symbol	Unit	MN95	MN98	MN67**	MN92	MN8TC	MN80C	MN90	MN8CX	MN30	BT100*	TC6000*	XTC5*	MN60	MN100**	MC25*	MC15K*
Initial Permeability	μ_i	-	1000	1100	1100	1200	1900	2050	2500	3100	4300	4700	7500	6000	6500	9,000	9500	15,000
Maximum Permeability	μm	-	6800	4500	7500	8000	6000	5000	6200	3700	7500	6400	13000	9300	8500	11,500	12,000	20,000
Saturation Flux Density	Bs	Gauss	5000	4800	5250	4800	4600	4900	4200	4500	4400	4500	3600	4500	4500	4700	3800	3900
Remanent Flux Density	Br	Gauss	2000	3600	2100	2100	1750	1600	600	850	750	1000			800	600		
Coercive Force	Hc	Oersted	0.14	0.29	0.15	0.12	0.15	0.18	0.085	0.20	0.07	0.12			0.08	0.03		
Curie Temperature	Tc	ºC	275	265	285	275	185	230	215	195	170	175	104	165	170	170	120	120
dc Volume Resistivity	Þ	ohm-cm	2500	5000	250	325	10^3	1600	4000	1200	150	200	5	60	500	200	149	10
Bulk Density	ρ	g/cc	4.7	4.7	4.7	4.7	4.5	4.75	4.42	4.7	4.75	4.85	4.85	4.83	4.8	4.8	4.9	4.85

* available only in pressed & fired parts
** available only in machined parts

Ni-Zn FERRITES

Property	Symbol	Unit	N40	C2075	XTH2	C2050	XCK	C2025	CM48	CM5	C2010	CM400	CMD10	CN20	CN20B	CMD5005
Initial Permeability	μ_i	-	15	50	80	100	125	175	190	290	340	400	625	925	1375	2100
Maximum Permeability	μm	-	50	270	440	600	350	850	1300	1200	1500	1600	3000	5000	4100	5500
Maximum Flux Density	B_M	Gauss	2500	3000	3600	3700	2500	3900	4400	3100	3900	4600	4300	4000	3500	3300
Remanent Flux Density	Br	Gauss	950	950	1200	2300	650	2500	3000	1700	2800	2400	2900	2600	2100	1300
Coercive Force	Hc	Oersted	8.00	2.60	2.00	2.00	0.95	1.40	1.00	0.65	0.70	0.65	0.36	0.20	0.20	0.12
Curie Temperature	Tc	ºC	600	420	300	340	400	270	410	280	245	300	250	185	160	130
dc Volume Resistivity	Þ	ohm-cm	10^{10}	10^9	10^8	10^9	10^9	10^{10}	10^{10}	10^8	10^7	10^{10}	10^{10}	10^{10}	10^8	10^{10}
Bulk Density	ρ	g/cc	4.8	4.6	4.6	4.6	4.25	4.7	5.2	4.4	5	5.15	5.2	5.24	5	5.27

16 Law Drive • Fairfield • New Jersey • 07004 • USA
Phone: (973) 227-4222 • Fax: (973) 227-6735
http://www.cmi-ferrite.com

Rev. 1/15

Ceramic Magnetics, Inc.
A National Magnetics Group Company

SUMMARY OF TYPICAL FERRITE PROPERTIES

Ultra Dense FERRITES

Property	Symbol	Unit	CMD6	CMD908	MND5200	MND5100
Initial Permeability	μ_i	-	1600	2700	4600	5600
Maximum Permeability	μm	-	7000	7800	6500	8100
Saturation Flux Density	Bs	Gauss	3400	3200	5200	5100
Remanent Flux Density	Br	Gauss	1600	900	800	400
Coercive Force	Hc	Oersted	0.095	0.060	0.080	0.050
Curie Temperature	Tc	ºC	120	105	195	175
dc Volume Resistivity	Þ	ohm-cm	10^6	10^6	225	60
Bulk Density	ρ	g/cc	5.3	5.33	5.07	5.086

Ultra dense ferrites available only in machined form parts up to 2" x 3 " x 5.5"

Ultra Dense Non-Magnetic FERRITES

Property	Symbol	Unit	HM10	NF6
Initial Permeability	μ_i	-	1	1
Thermal Expansion Coeff.	α	ppm/ºC	11	8.5
dc Volume Resistivity	Þ	ohm-cm	10^{10}	10^9
Bulk Density	ρ	g/cc	5.06	5.26

16 Law Drive • Fairfield • New Jersey • 07004 • USA
Phone: (973) 227-4222 • Fax: (973) 227-6735
http://www.cmi-ferrite.com

Rev. 1/15