

PROPERTIES OF Mn-Zn FERRITE MATERIAL (LEAD FREE)

Property	μ_i	Working Frequency	Bm	Br	Hc	Tc	$\alpha \mu \gamma$	Tan δ / μ_i	d	ρ
Material		MHZ	Gauss	Gauss	Oe	°C	$\times 10^{-6} / ^\circ\text{C}$	$\times 10^{-6}$	g/cm^3	Ωcm
J1M	700	<2.0	3800	3000	0.30	170	20	160	4.7	200
J1L	850	<1.5	3800	3000	0.40	170	15	110	4.8	200
JF3	1200	<1.0	5000	2950	0.6	290	5	8	4.8	1000
JF35	1400	<1.0	5000	2000	0.60	260	5	8	4.8	1000
J2M	2000	<0.5	5100	1300	0.12	220	6	8	4.9	600
J2K	2100	<0.4	5200	1400	0.2	260	4	6	4.8	200
JP40	2300	<0.4	5000	1200	0.12	210	8	5	4.8	500
JP44	2500	<0.4	5200	1750	0.18	220	6	5	4.8	600
J2	2800	<0.4	5100	1400	0.15	200	4	10	4.8	300
J2H	3000	<0.3	5400	1300	0.15	240	1.5	10	4.9	100
JP95	3000	<0.4	5200	1050	0.16	220	3	8	4.8	700
J3M	3500	<0.2	4600	1350	0.18	180	1.5	8	4.8	30
J3H	4000	<0.15	4600	1600	0.18	160	1.5	15	4.8	20
J4	4500	<0.1	4000	1250	0.08	120	1.5	15	4.8	20
J55	4500	<0.1	5000	1250	0.08	150	1.5	20	4.9	15
J5	5500	<0.1	4000	1250	0.08	110	1.5	20	4.9	15
J6	6000	<0.1	4200	1250	0.08	110	1	20	4.9	15
J7	7500	<0.1	4000	1250	0.07	110	0.6	25	4.9	10
J9	8500	<0.1	3900	1100	0.06	110	0.5	25	4.9	10
J10	10000	<0.05	4300	1950	0.10	120	0.1	40	4.8	10

Core Loss

Material			JF35	JF3	JP95	JP44	JP40	J2	J2M	
Pcv(kw/m ³)	200mT	25KHz	25°C				100	120	140	135
			60°C				68	80	120	100
			100°C				*48	70	170	120
			120°C				85	85		
		100KHz	25°C			450	600	630	750	780
			60°C			370	410	500	650	620
			100°C			*330	*320	430	950	750
			120°C			400	540	510		
	50mT	500KHz	25°C	150	238					
			60°C	85	142					
			80°C	80	155					
			100°C	100	190					
	25mT	1MHz	25°C		120					
			60°C		115					
			80°C		155					
			100°C		180					

* TEST TEMPERATURE 90°C

YENG TAT ELECTRONICS CO., LTD.

MATERIAL CROSS REFERENCE LIST (Mn-Zn) March. 2016

YTE	TDK	FERROXCUBE	EPCOS	ACME	FDK	NICERA	HITACHI	TOKIN	TOMITA	FAIR-RITE	DMEGC	TDG
JP40	PC40	3C90	N67	P4	6H20	NC-2H	ML24D	BH2	2G8	78	DMR40	TP4
JP44	PC44	3C94/3C96	N87/N97	P41	6H40	2HM5	ML25D	BH1			DMR44	TP4A
JP45	PC45	3C91			6H41		ML30D					TP4B
JP46	PC46		N51									TP4C
****	PC47											TP4D
JP95	PC95	3C95	N95	P46/P47	6H42	3H	ML33D		2N2		DMR95	TP4W
JF3		3F3		P5		2M			2H8	79	DMR50B	
JF35	PC50	3F35	N49	P51	7H10	5M	ML12D	B40			DMR50	TP5
****		3F4			7H20							
J1M	H6F	3D3								33		
J1L		3B1	M33						2H6			
J2M	H6K	3H3	N27							77		
	H3T		N48									
J2	H3S	3B7	N41		2H03	NC-1L				73		
	H7C1	3C81										
J3M	H5A	3E1							2H5			
	H7B											
J3H		3S1	T57			NC-4Y					DMR4KDC	
J4	HP4	3E4	N30		2H04							
J5	H5B		T65	A05		NC-5Y	MQ53D	5H	2G4	75	DMR5K	TS5
	HP5		T35									
J6		3E25	T37		2H06							
J7	H5B2	3E26	T36	A7	2H07	NC-7	MP70D	7H	2G1		DMR7K	TS7
J10	H5C2	3E5	T38	A10	2H10	NC-10H	MP10T	10H	2H2A	76	DMR10K	TS10

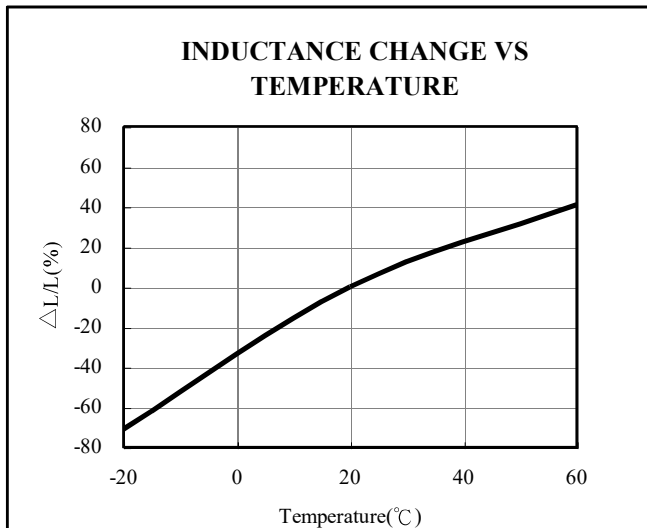
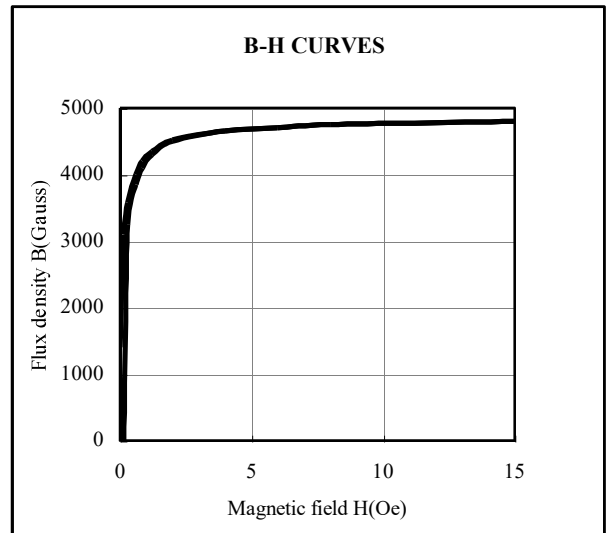
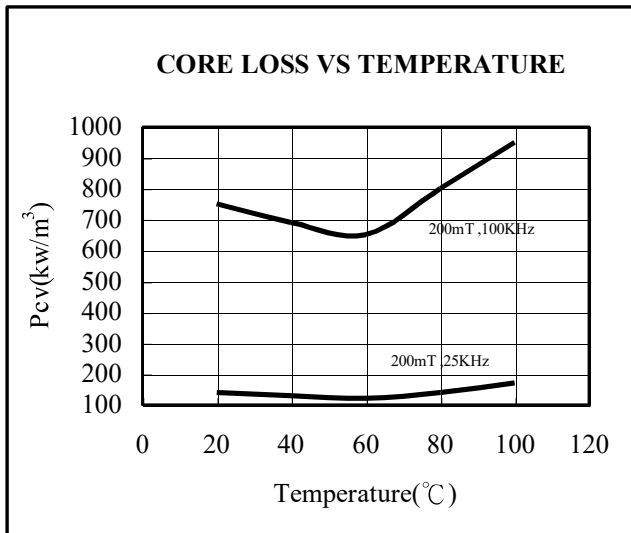
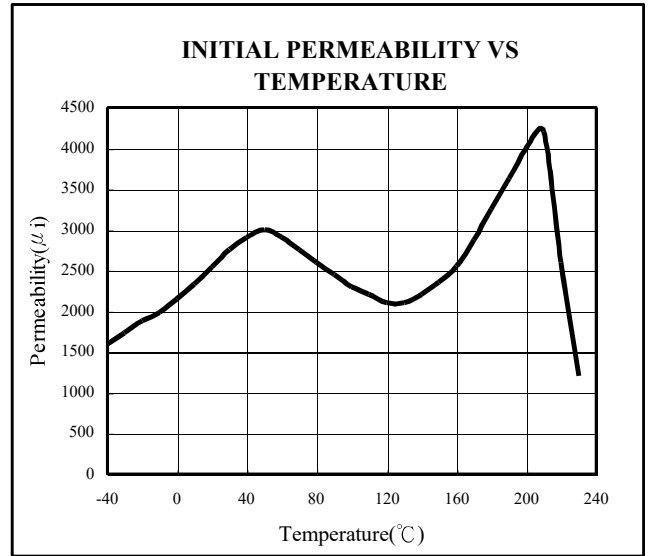


YENG TAT ELECTRONICS CO., LTD

No.25, Gongxing St., Shu-lin Dist., New Taipei City 238, Taiwan <http://www.yeng-tat.com>

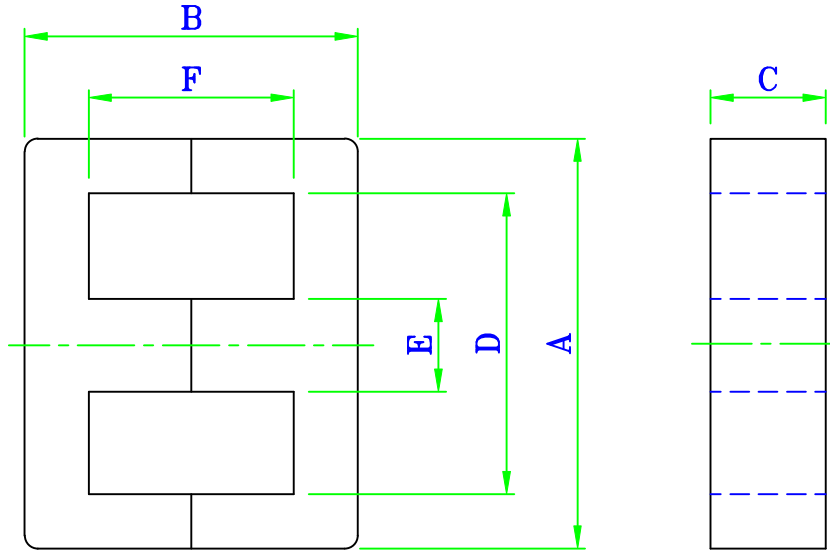
Fax:+886-2-2689-4843 Tel:+886-2-2689-1473 e-mail:sales@yeng-tat.com

Material	J2	
μ_i	unit	2800
Working Frequency	MHz	<0.4
Bm	Gauss	5100
Br	Gauss	1400
Hc	Oe	0.15
Tc	°C	200
$\alpha \mu \gamma$	$\times 10^{-6}/^{\circ}\text{C}$	4
$\tan \delta / \mu_i$	$\times 10^{-6}$	10
d	g/cm^3	4.8
ρ	$\Omega \cdot \text{cm}$	300



EE

SHAPES



MATERIAL: Mn-Zn:
DIMENSIONS OF MAIN PRODUCTS (unit:mm)

ITEM	A	B	C	D	E	F
EE 4.4	4.4±0.1	3.15±0.15	1.45 ⁺⁰ _{-0.15}	2.9 ^{+0.3} ₋₀	1.23±0.05	2.1±0.1
EE 5	5.25±0.1	5.3±0.16	1.95±0.1	3.85±0.1	1.35±0.08	4±0.16
EE 8.3	8.3±0.2	8±0.2	3.5±0.2	6 ^{+0.3} ₋₀	2 ⁺⁰ _{-0.3}	6±0.2
EE 10	10±0.3	11±0.3	4.9 ⁺⁰ _{-0.3}	7.7 ^{+0.3} ₋₀	2.4±0.2	8.3±0.3
EE 10×3	10±0.3	10.2±0.3	3 ⁺⁰ _{-0.3}	7.1±0.3	3±0.2	7±0.3
EE 12.5	12.5±0.3	11.3±0.3	5±0.2	9.2 ^{+0.25} _{-0.15}	2.5 ^{+0.1} _{-0.2}	6.3±0.2
EEL 12.5	12.5±0.3	18±0.6	2.5 ⁺⁰ _{-0.4}	9.5±0.3	2.5±0.2	14±0.6
EE 12.6	12.6±0.3	8±0.2	6±0.3	10.1±0.3	3.18±0.15	5.8±0.2
EE 13	13±0.3	12±0.4	6.3 ⁺⁰ _{-0.3}	10.5±0.3	2.95 ⁺⁰ _{-0.4}	9.3±0.3
EE 13A	13±0.3	12.6±0.4	6.3 ⁺⁰ _{-0.4}	10.5±0.3	2.95 ⁺⁰ _{-0.4}	9.6±0.3
EE 16	16±0.35	14.5±0.4	5.1 ⁺⁰ _{-0.4}	12.4±0.3	4.2 ⁺⁰ _{-0.4}	10.3 ^{+0.4} ₋₀
EEL 16	16±0.35	24.9±0.4	5.1 ⁺⁰ _{-0.4}	12.4±0.3	4±0.2	20.5±0.4
EES 16	16±0.3	14.3±0.4	7 ⁺⁰ _{-0.4}	13±0.3	3.2 ⁺⁰ _{-0.4}	10.8 ^{+0.4} ₋₀
EE 19	19±0.4	16±0.4	5.1 ⁺⁰ _{-0.5}	14.3±0.3	5.1 ⁺⁰ _{-0.5}	11.3±0.3
EEL 19	19±0.4	27.2 ^{+0.5} _{-0.4}	5.1 ⁺⁰ _{-0.5}	14.3±0.3	5.1 ⁺⁰ _{-0.5}	22.6±0.4
EE 20	20.3±0.4	16.8±0.4	4.8±0.2	15.7±0.4	4.8±0.2	12.4±0.4



EE

MATERIAL: Mn-Zn:
DIMENSIONS OF MAIN PRODUCTS (unit:mm)

ITEM	A	B	C	D	E	F
EEL 20	20.3±0.4	29.2±0.5	4.8±0.2	15.7±0.4	4.8±0.2	24.8±0.4
EE 22	22±0.4	19.2±0.6	6 ⁺⁰ _{-0.5}	16.5±0.3	6 ⁺⁰ _{-0.5}	11±0.4
EEL 22	22±0.4	30.4±0.5	6 ⁺⁰ _{-0.5}	16.5±0.3	6 ⁺⁰ _{-0.5}	22±0.4
EE 25	25±0.4	20±0.4	6.5±0.3	18.8±0.3	6.5±0.3	13.6±0.3
EE 25.4×6.35	25.4±0.5	19.2±0.4	6.35±0.3	19.5±0.5	6.25±0.25	13.1±0.4
EE 25.4×9.53	25.4±0.5	19.2±0.4	9.53±0.3	19.5±0.5	6.25±0.25	13.1±0.4
EE 25.4×12.7	25.4±0.5	19.2±0.4	12.7±0.4	19.5±0.5	6.25±0.25	13.1±0.4
EE 25.4×12.83	25.4±0.5	19.2±0.4	12.83±0.4	19±0.5	6.25±0.25	12.7±0.4
EEL 25.4	25.4±0.5	32.6±0.5	6.35±0.3	19.5±0.5	6.25±0.25	26.4±0.5
EEL 26.4	26.4±0.5	32.4±0.6	6.3±0.3	20.4±0.5	4±0.3	26±0.4
EE 28	28±0.5	21.5±0.5	11 ⁺⁰ _{-0.5}	19.1±0.3	7.2±0.3	12.5±0.3
EE 30×7	30±0.5	26.5 ^{+0.8} _{-0.2}	7 ⁺⁰ _{-0.6}	20 ^{+0.5} _{-0.3}	11 ⁺⁰ _{-0.7}	16 ^{+0.5} ₋₀
EE 30×11	30±0.5	26.5 ^{+0.8} _{-0.2}	11 ⁺⁰ _{-0.7}	20 ^{+0.5} _{-0.3}	11 ⁺⁰ _{-0.7}	16 ^{+0.5} ₋₀
EEL 30×11	30±0.5	42.6±0.5	11 ⁺⁰ _{-0.7}	20 ^{+0.7} ₋₀	11 ⁺⁰ _{-0.7}	32.6±0.5
EE 30×30×7	30 ^{+0.8} _{-0.6}	30.4 ⁺⁰ _{-0.8}	7.3 ⁺⁰ _{-0.5}	19.5 ^{+0.8} ₋₀	7.2 ⁺⁰ _{-0.7}	19.4 ^{+1.2} ₋₀
EE 35×10	35±0.5	29.7±0.5	10 ⁺⁰ _{-0.5}	25.5±0.5	10.3 ⁺⁰ _{-0.5}	18.2±0.3
EE 35	35±0.5	29.7±0.5	12 ⁺⁰ _{-0.5}	25.5±0.5	10.3 ⁺⁰ _{-0.5}	18.2±0.3
EEL 35	35±0.5	48.4±0.6	12 ⁺⁰ _{-0.5}	25.5±0.5	10.3 ⁺⁰ _{-0.5}	36.4±0.6
EE 40	40±0.6	34.7±0.6	12 ⁺⁰ _{-0.7}	28±0.5	11.7±0.3	20.6±0.3



EE

MATERIAL: Mn-Zn:

ITEM	ALnH±25%								
	JP30	JP40	J2M	J2	J3M	J4	J5	J6	J7
EE 5		min 200	min 200						
EE 8.3				650	750				
EE 10	900	850		1000					
EE 10×3		750		970					
EE 12.6				1300					
EE 13		1100	1100	1250	1400	1600			
EE 16		1150	1150	1300	1500	1700			
EEL 16	1000	800		1200					
EES 16		1250	1200	1400	1600	1800			
EE 19		1300	1300	1500	1750	2000			
EEL 19		900		1100	1300	1550			
EE 20				1500					
EE 22		2000		2100	2500				
EEL 22				1500					
EE 25				2200					
EE 25.4×6.35		2000	2000	2300	2500	3000	3500		
EE 25.4×9.53		2600							
EEL 25.4				1600					
EEL 26.4				1700					
EE 28		4300		4800	5500				
EE 30×11		4400		4900					
EE 30×30×7		2100	2100	2500	3000				
EE 35×10				4100					
EE 35×12				4800	5500	6300			
EE 40			4700	5000	6100				

