

# YENG TAT ELECTRONICS CO., LTD.

## *M*ATERIAL *C*ROSS *R*EFERENCE *L*IST (Mn-Zn) *Sep.2010*

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

# PROPERTIES OF Mn-Zn FERRITE MATERIAL ( LEAD FREE)

Property Material	$\mu i$	Working Frequency MHZ	Bm Gauss	Br Gauss	Hc Oe	Tc °C	$\alpha \mu \gamma$ x10 <sup>-6</sup> / °C	Tan $\delta / \mu i$ x10 <sup>-6</sup>	d g/cm <sup>3</sup>	$\rho$ Ω cm
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
J1K	1000	<1.5	4300	3300	0.45	200	30	140	4.8	400
J1H	1300	<1.0	4900	2500	0.35	240	15	780	4.7	250
J2L	1500	<1.0	4900	2700	0.30	200	20	130	4.7	350
JF3	1500	<1.0	5000	2950	0.60	290	5	8	4.8	1000
JF35	1400	<1.0	5000	2000	0.6	260	5	8	4.8	1000
J2M	2000	<0.5	5100	1300	0.12	220	6	8	4.9	600
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	4800	1400	0.15	200	4	10	4.8	300
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
J3	3500	<0.2	4000	1300	0.1	130	1.5	15	4.8	25
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
J5	5500	<0.1	4000	1250	0.08	110	1.5	20	4.9	15
J55	5500	<0.1	5000	1250	0.08	150	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 <sup>3</sup> )	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