

PROPERTIES OF Mn-Zn FERRITE MATERIAL (LEAD FREE)

Property	μi	Working Frequency	Bm	Br	Hc	Tc	$\alpha \mu \gamma$	Tan $\delta / \mu i$	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.

*M*ATERIAL *C*ROSS *R*EFERENCE *L*IST (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	N51		6H41		ML30D					TP4B		
JP46	PC46													TP4C
****	PC47													
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		

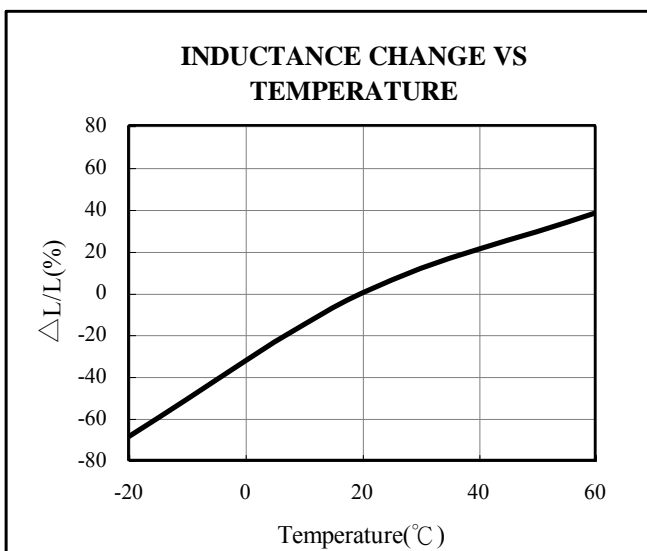
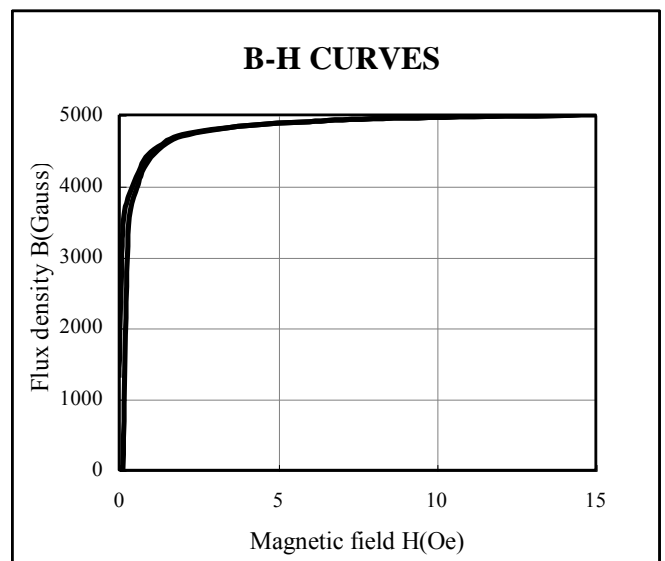
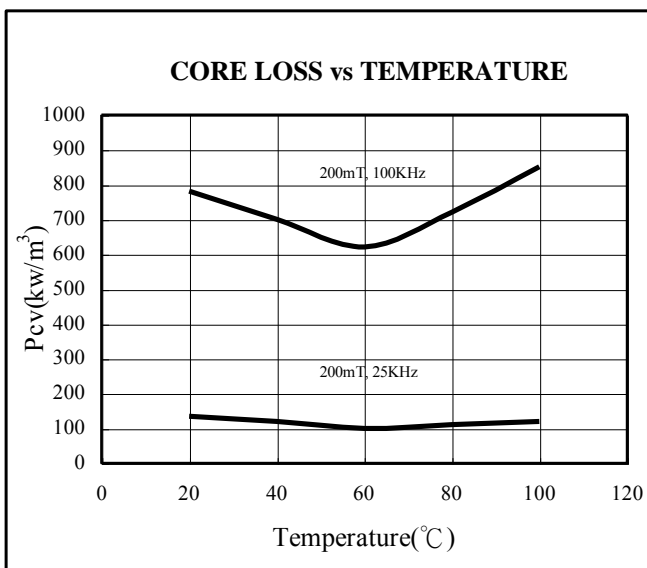
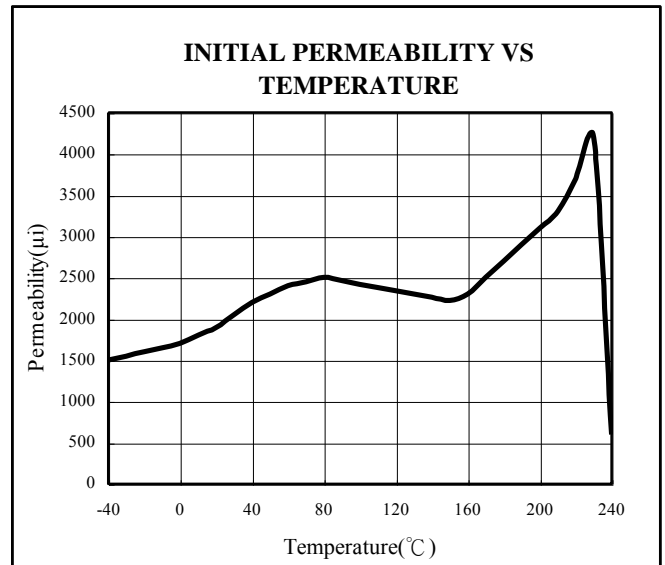


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Material	J2M	
μ_i	unit	2000
Working Frequency	MHz	<0.5
Bm	Gauss	5100
Br	Gauss	1300
Hc	Oe	0.12
Tc	°C	220
$\alpha \mu \gamma$	$\times 10^6 / ^\circ\text{C}$	6
$\tan \delta / \mu_i$	$\times 10^{-6}$	8
d	g/cm^3	4.8
ρ	$\Omega \cdot \text{cm}$	600



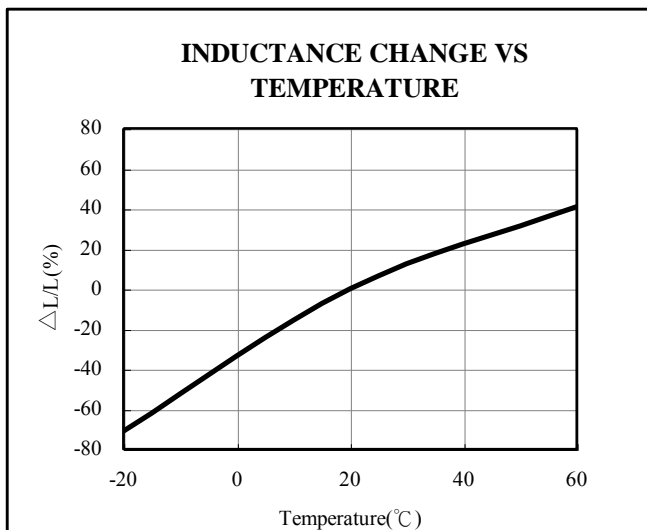
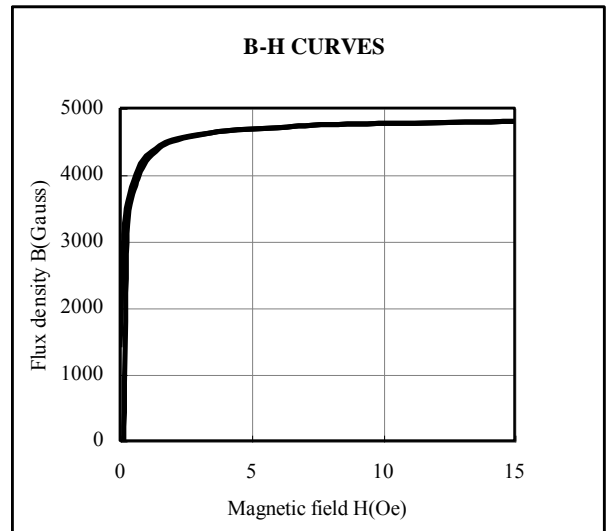
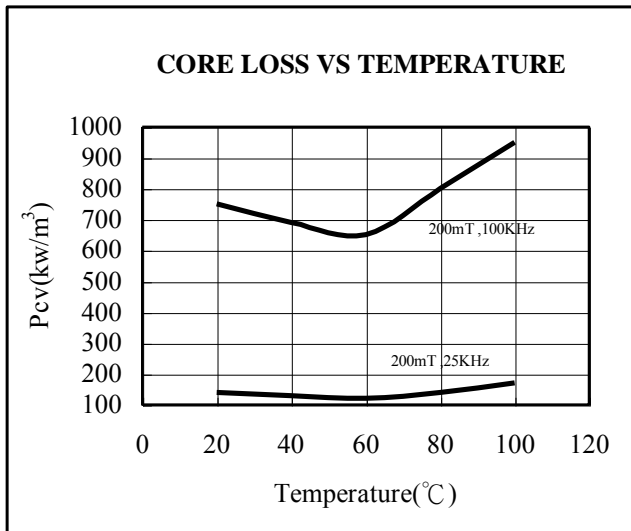
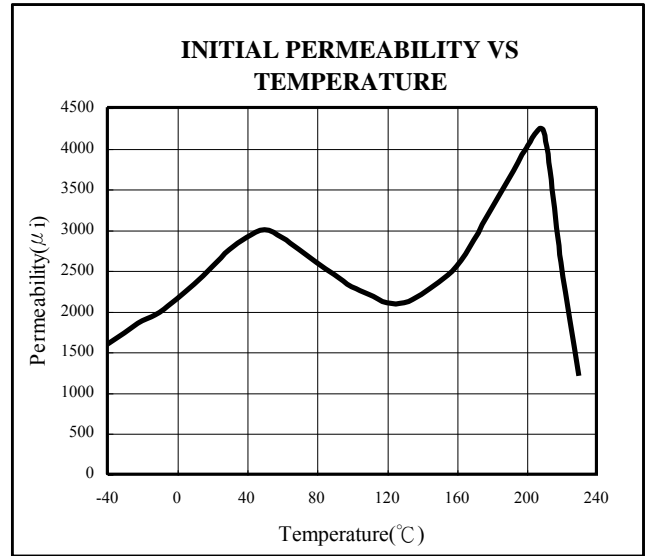


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Material		J2
μ_i	unit	2800
Working Frequency	MHz	<0.4
Bm	Gauss	5100
Br	Gauss	1400
Hc	Oe	0.15
Tc	°C	200
$\alpha \mu \gamma$	$\times 10^{-6}/^{\circ}\text{C}$	4
$\tan \delta / \mu_i$	$\times 10^{-6}$	10
d	g/cm^3	4.8
ρ	$\Omega \cdot \text{cm}$	300



RM4

SHAPES

Fig1

F1 Type

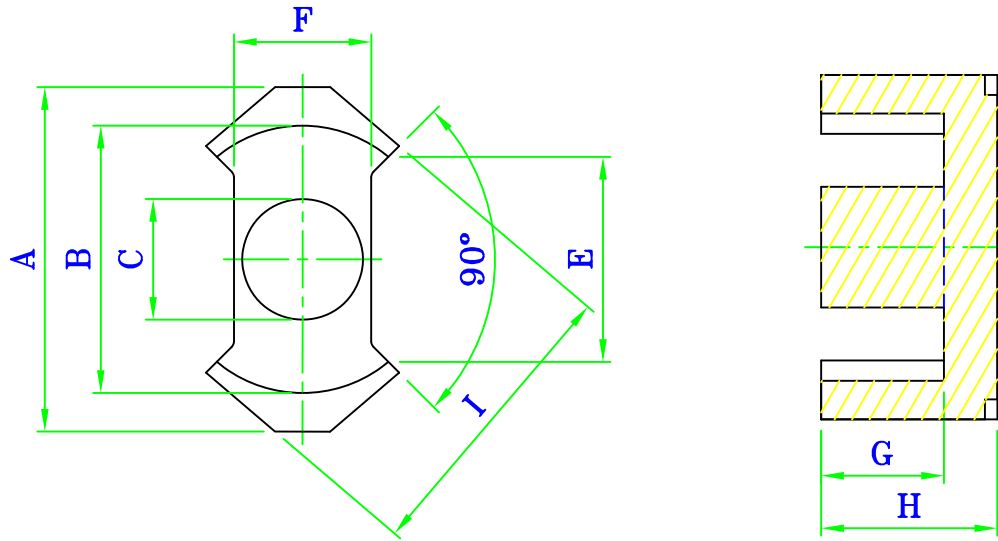
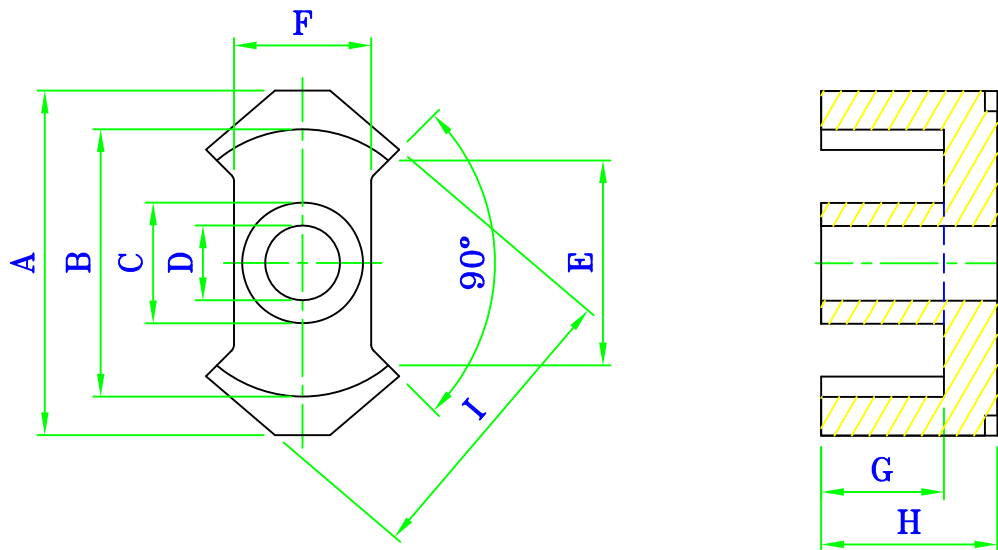


Fig2

F2 Type



MATERIAL: Mn-Zn:JP40,J2M,J2,J3M,J4,J5
DIMENSIONS OF MAIN PRODUCTS (unit:mm)

ITEM	A	B	C	D	E	F	G	H	I	Fig
RM 4 F1	$11^{+0}_{-0.4}$	$7.95^{+0.4}_{-0}$	$3.9^{+0}_{-0.2}$		5.8-0	$4.6^{+0}_{-0.2}$	$3.5^{+0.2}_{-0}$	$5.25^{+0}_{-0.1}$	$9.8^{+0}_{-0.4}$	1
RM 4 F2	$11^{+0}_{-0.4}$	$7.95^{+0.4}_{-0}$	$3.9^{+0}_{-0.2}$	$2.0^{+0.1}_{-0}$	5.8-0	$4.6^{+0}_{-0.2}$	$3.5^{+0.2}_{-0}$	$5.25^{+0}_{-0.1}$	$9.8^{+0}_{-0.4}$	2

ITEM	ALnH±25%								
	JP40	J2M	J2	J3M	J4	J5	J6	J7	
RM 4 F1	1000	1450							
RM 4 F2	900	1000	1050			1400			



RM6

SHAPES

Fig1

F1 Type

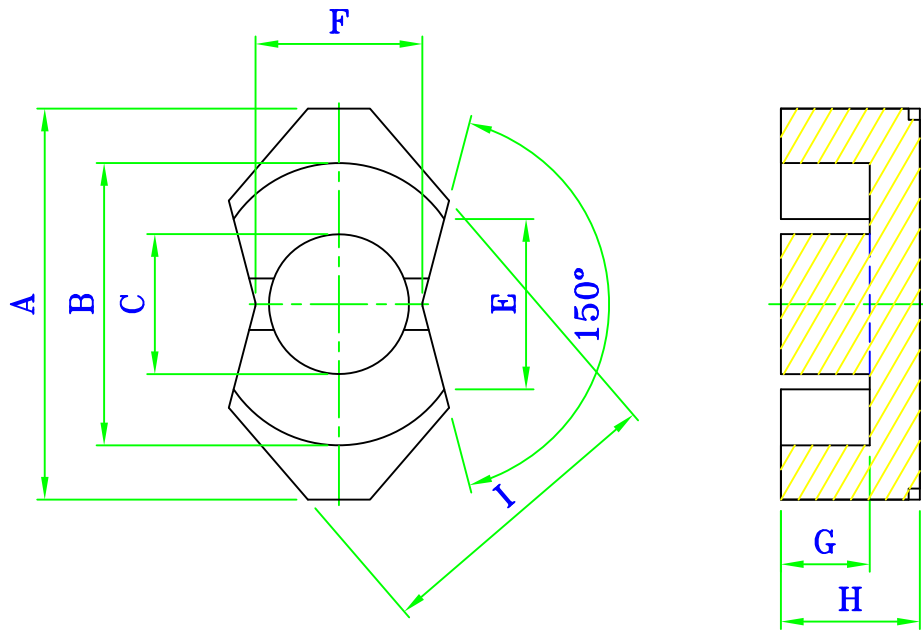
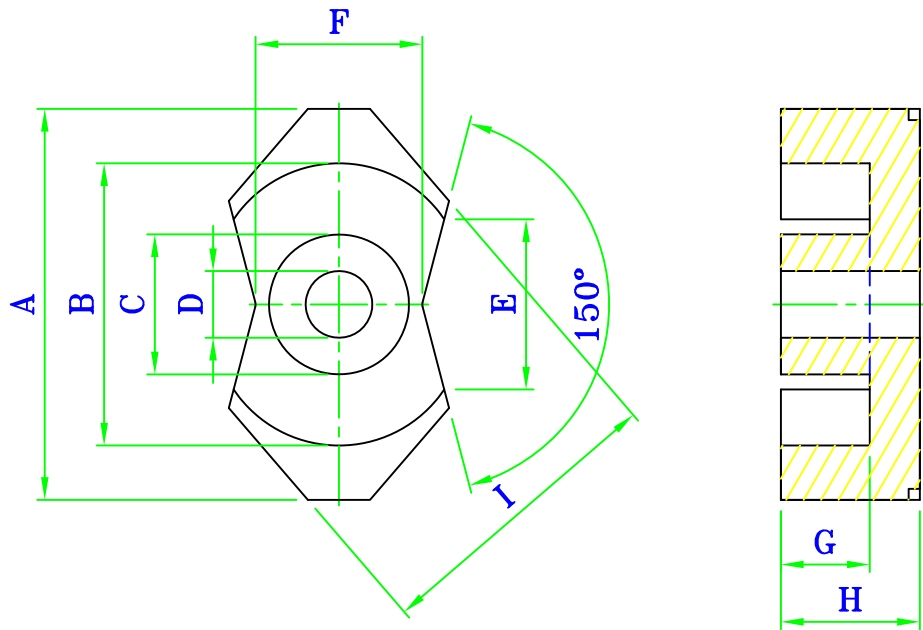


Fig2

F2 Type



MATERIAL: Mn-Zn:JP40,J2M,J2,J3M,J4
 DIMENSIONS OF MAIN PRODUCTS (unit:mm)

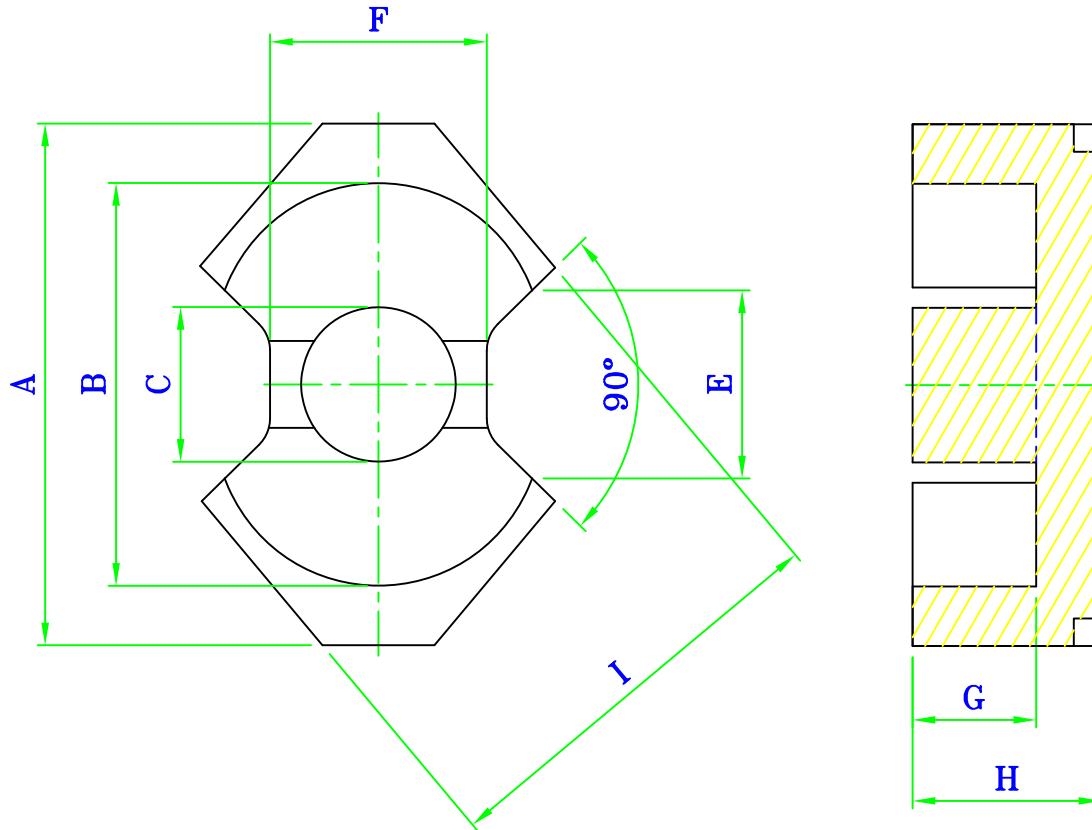
ITEM	A	B	C	D	E	F	G	H	I	Fig
RM 6 ^{F1}	17.9 ⁺⁰ _{-0.6}	12.4 ^{+0.5} ₋₀	6.4 ⁺⁰ _{-0.2}		8.4-0	8.2 ⁺⁰ _{-0.4}	4.0 ^{+0.2} ₋₀	6.25 ⁺⁰ _{-0.1}	14.7 ⁺⁰ _{-0.6}	1
RM 6 ^{F2}	17.9 ⁺⁰ _{-0.6}	12.4 ^{+0.5} ₋₀	6.4 ⁺⁰ _{-0.2}	3.0 ^{+0.1} ₋₀	8.4-0	8.2 ⁺⁰ _{-0.4}	4.0 ^{+0.2} ₋₀	6.25 ⁺⁰ _{-0.1}	14.7 ⁺⁰ _{-0.6}	2

ITEM	ALnH±25%							
	JP40	J2M	J2	J3M	J4	J5	J6	J7
RM 6 ^{F1}	2100	2000	2300	2900	3500			
RM 6 ^{F2}								



RM8

SHAPES



MATERIAL: Mn-Zn:JP40,J2M,J2,J3M,J4
DIMENSIONS OF MAIN PRODUCTS (unit:mm)

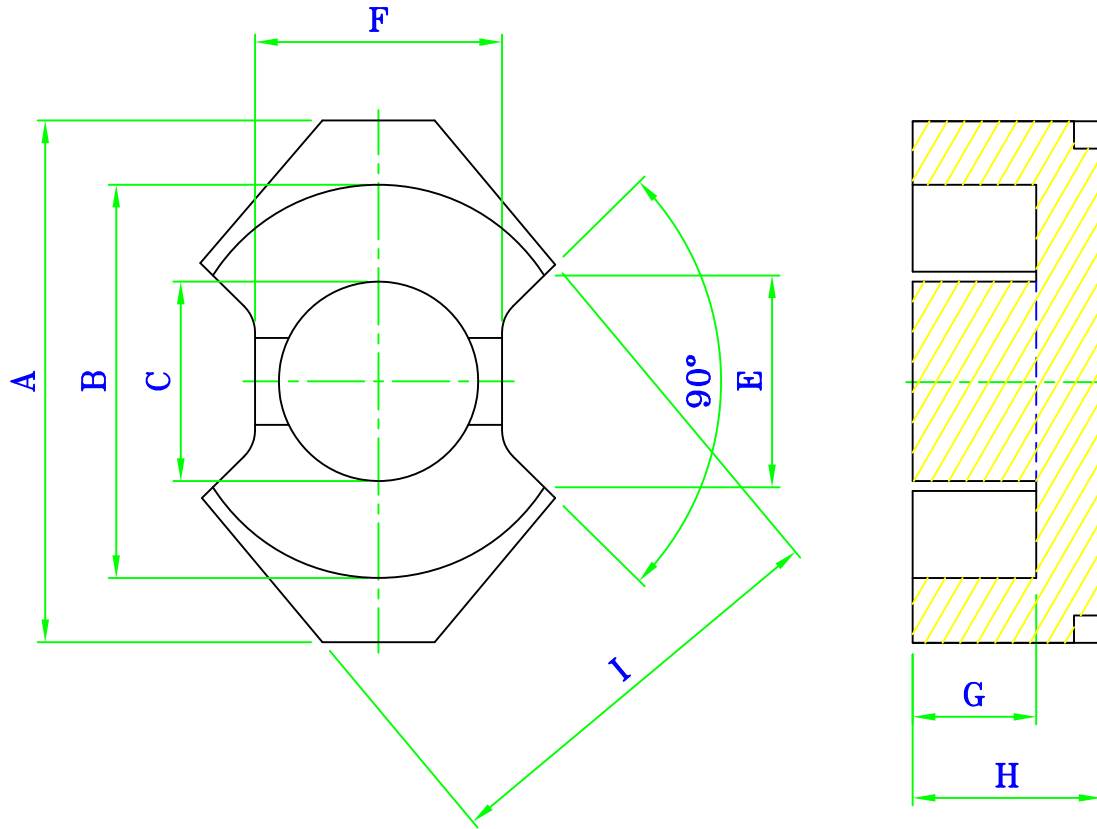
ITEM	A	B	C	E	F	G	H	I
RM 8	$23.2^{+0}_{-0.9}$	$17.0^{+0.6}_{-0}$	$8.55^{+0}_{-0.3}$	9.8-0	11 REF	$5.4^{+0.2}_{-0}$	$8.25^{+0}_{-0.1}$	$19.7^{+0}_{-0.7}$

ITEM	ALnH±25%							
	JP40	J2M	J2	J3M	J4	J5	J6	J7
RM 8	2800	2800	3500	4400	5000			



RM10

SHAPES



MATERIAL: Mn-Zn:JP40,J2M,J2,J3M,J4
DIMENSIONS OF MAIN PRODUCTS (unit:mm)

ITEM	A	B	C	E	F	G	H	I
RM 10	$28.5^{+0}_{-1.3}$	$21.2^{+0.9}_{-0}$	$10.9^{+0}_{-0.4}$	11.3-0	$13.5^{+0}_{-0.5}$	$6.2^{+0.3}_{-0}$	$9.35^{+0}_{-0.1}$	$24.7^{+0}_{-1.1}$

ITEM	ALnH±25%							
	JP40	J2M	J2	J3M	J4	J5	J6	J7
RM 10	4400	4400	5200	6000	7000			

