

# Ferrite Cores

# R4H, RHH, RID, R Series

For Balun Transformer/Choke Coil  
Multi-hole, Multi-aperture, Cylindrical and Rod Types

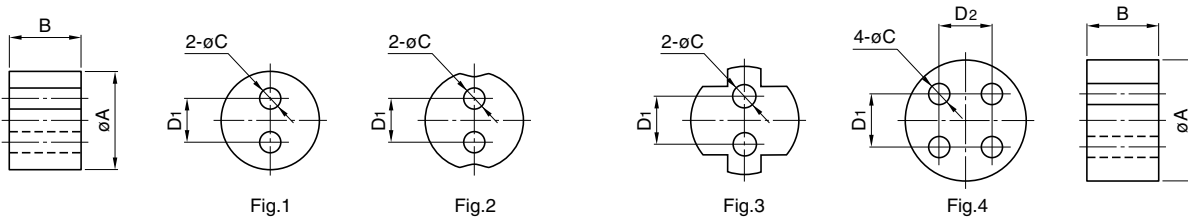
## MATERIAL CHARACTERISTICS

Material	Practical frequency (MHz)	Initial permeability $\mu_i$	Relative loss factor $\tan\delta/\mu_i \times 10^{-6}$	Temperature factor of initial permeability $\alpha_{\mu ir} \times 10^{-6}/^{\circ}\text{C}$ [+20 to +60°C]	Curie temperature $T_c$ (°C)	Saturation magnetic flux density $B_s$ (mT)	Remanant flux density $B_r$ (mT)	Coercive force $H_c$ (A/m)	Electrical resistivity $\rho_v$ ( $\Omega\cdot\text{m}$ )	Density $d_b$ ( $\text{kg}/\text{m}^3$ )
L6	0.01 to 0.5	1500±25%	<10[0.01MHz] <60[0.5MHz]	1 to 3	>100	280 [1.6kA/m]	105	16	10 <sup>5</sup>	5×10 <sup>3</sup>
L7H	0.05 to 1.0	800±25%	<12[0.05MHz] <80[1MHz]	7 to 15	>180	390 [4kA/m]	220	16	10 <sup>5</sup>	5.1×10 <sup>3</sup>
L5	0.1 to 1.5	750±25%	<15[0.1MHz] <280[1.5MHz]	1 to 3	>120	310 [1.6kA/m]	105	40	10 <sup>5</sup>	5×10 <sup>3</sup>
L4	0.1 to 1.5	400±25%	<30[0.1MHz] <150[1.5MHz]	3 to 9	>150	330 [1.6kA/m]	110	72	10 <sup>5</sup>	5×10 <sup>3</sup>
L2H	0.05 to 2	400±25%	<15[0.05MHz] <65[2MHz]	15 to 25	>250	430 [4kA/m]	240	35	10 <sup>5</sup>	5.1×10 <sup>3</sup>
Q1C	0.1 to 2	250±25%	<35[0.1MHz] <110[2MHz]	9 to 15	>125	290 [1.6kA/m]	140	119	10 <sup>5</sup>	5×10 <sup>3</sup>
Q5F	0.4 to 15	120±25%	<35[0.1MHz]	8 to 18	>250	410 [4kA/m]	220	250	10 <sup>5</sup>	5.2×10 <sup>3</sup>
M9	0.5 to 30	50±25%	<90[0.5MHz] <280[30MHz]	25 to 65	>300	350 [4kA/m]	215	597	10 <sup>5</sup>	5×10 <sup>3</sup>
M11	3 to 80	25±25%	<220[3MHz] <470[80MHz]	30 to 70	>300	290 [4kA/m]	190	1195	10 <sup>5</sup>	5×10 <sup>3</sup>
M5E	10 to 120	17±25%	<450[10MHz] <1000[120MHz]	40 to 120	>300	300 [8kA/m]	185	1670	10 <sup>5</sup>	5.1×10 <sup>3</sup>
V5F	10 to 250	9±25%	<550[10MHz] <1500[250MHz]	25 to 65	>300	180 [16kA/m]	110	2865	10 <sup>5</sup>	4.9×10 <sup>3</sup>

• 1(mT): 10(gauss), 1(A/m): 0.012566(Oersted)

## RHH AND R4H SERIES

### CORE SHAPES AND DIMENSIONS



Type	Dimensions(mm)					Fig.
	øA	B	øC	D1	D2	
RHH6X5H1.2	6±0.2	5±0.3	1.2+0.2, -0	2.5		1
RHH7X5.5H1.5M	7±0.2	5.5±0.3	1.5±0.1	3		2
RHH7.5X4H1.3M	7.5±0.3	4±0.3	1.3±0.1	2.3		3
R4H8X5H1.2	8±0.3	5±0.3	1.2+0.3, -0	3	3	4

• Please consult us about the combination of shape and the size.



## Ferrite Cores

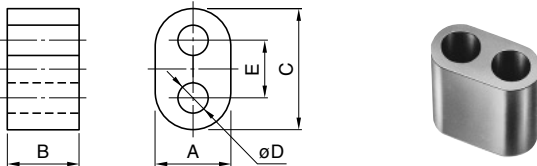
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### RID SERIES

#### CORE SHAPES AND DIMENSIONS

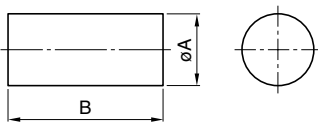


Type	Dimensions(mm)				
	A	B	C	øD	E
RID1.9X2X3.4H0.9	1.9±0.1	2.0±0.15	3.4±0.3	0.9±0.1	1.4
RID2.6X4X5.1H1.4	2.6±0.3	4.0±0.3	5.1±0.3	1.4±0.2	2.5
RID3X2X5H1.2	3.0±0.2	2.0±0.2	5.2±0.3	1.2±0.1	2.6
RID3X3X5H1.2	3.0±0.2	3.0±0.2	5.2±0.3	1.2±0.1	2.6
RID3X5X5H1.2	3.0±0.2	5.0±0.2	5.2±0.3	1.2±0.1	2.6
RID6.5X4X12H3.8	6.5±0.3	4.0±0.3	12.0±0.5	3.8±0.25	5.5
RID7.5X7X13H3.8	7.5±0.3	7.0±0.3	13.3±0.5	3.8±0.25	5.8
RID8X7X15H5	8.0±0.3	7.0±0.3	15.0±0.5	5.0±0.25	7
RID8X14X15H5T	8.0±0.3	14.0±0.5	15.0±0.5	5.0±0.25	7

• Please consult us about the combination of shape and the size.

### R SERIES

#### CORE SHAPES AND DIMENSIONS



Type	Dimensions(mm)	
	øA	B
R3X10	3	10
R5X20	5	20
R6X15	6	15
R6X30	6	30
R8X30	8	30

• Please consult us about the combination of shape and the size.

