

Ferrite Cores

For Coil Cores

DR, FT, THP P, TH, ACD Series

MATERIAL CHARACTERISTICS

Recommended Material	Practical frequency (MHz)	Initial permeability μ_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)	Remanent flux density B_r (mT)	Coercive force H_c (A/m)	Electrical resistivity ρ_v ($\Omega\text{-m}$)	Density d_b (kg/m^3)	Material's feature
L8F	0.01 to 0.5	1200±25%	<10[0.01MHz] <60[0.5MHz]	3 to 6	>130	320[1.6kA/m]	130	30	10 ⁵	5.1×10 ³	For general purpose
Q1C	0.1 to 2	250±25%	<35[0.1MHz] <110[2MHz]	9 to 15	>125	290[1.6kA/m]	140	119	10 ⁵	5×10 ³	For general purpose
Q5F	0.4 to 1.5	120±25%	<35[0.1MHz]	8 to 18	>250	410[4kA/m]	220	250	10 ⁵	5.2×10 ³	For general purpose
M8C	0.5 to 15	70±25%	<90[0.5MHz] <250[15MHz]	5 to 15	>300	360[4kA/m]	225	557	10 ⁵	5×10 ³	For general purpose
M8B	0.5 to 20	50±25%	<140[0.5MHz] <400[20MHz]	4 to 12	>300	300[4kA/m]	200	875	10 ⁵	5.1×10 ³	For general purpose
M9M	0.5 to 30	45±25%	<130[0.5MHz] <420[30MHz]	5 to 15	>300	320[4kA/m]	220	800	10 ⁵	4.9×10 ³	For general purpose
V2F	10 to 70	30±25%	<210[10MHz] <400[70MHz]	25 to 75	>300	320[8kA/m]	170	796	10 ⁵	5×10 ³	For general purpose
V4F	10 to 200	8±25%	<650[10MHz] <4000[200MHz]	5 to 15	>300	210[16kA/m]	130	3105	10 ⁵	4.8×10 ³	For general purpose
L7H	0.05 to 1	800±25%	<12[0.05MHz] <80[1MHz]	7 to 15	>180	390[4kA/m]	220	16	10 ⁵	5.1×10 ³	High B_s
L13H	0.05 to 1	500±25%	<55[0.1MHz] <65[1MHz]	15 to 35	>240	460[4kA/m]	320	37	10 ⁵	5.2×10 ³	High B_s
L2H	0.05 to 2	400±25%	<15[0.05MHz] <65[2MHz]	15 to 25	>250	430[4kA/m]	240	35	10 ⁵	5.1×10 ³	High B_s
L14H	0.05 to 3	300±25%	<160[0.1MHz] <90[2MHz]	25 to 40	>250	480[4kA/m]	350	65	10 ⁵	5.2×10 ³	High B_s
L9H	0.05 to 3	200±25%	<35[0.05MHz] <65[3MHz]	20 to 30	>300	500[12kA/m]	280	64	10 ⁵	5.2×10 ³	High B_s
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 ⁵	5×10 ³	Low temperature coefficient
L5N	0.1 to 1.5	500±25%	<50[0.1MHz] <350[1.5MHz]	-1 to 1	>100	290[1.6kA/m]	95	56	10 ⁵	5.1×10 ³	Low temperature coefficient
L4N	0.1 to 1.5	300±25%	<45[0.1MHz] <210[1.5MHz]	-3 to -1	>150	260[1.6kA/m]	105	119	10 ⁵	5.1×10 ³	Low temperature coefficient
M8N	0.5 to 20	70±25%	<130[0.5MHz] <350[20MHz]	-3 to 3	>300	360[4kA/m]	275	716	10 ⁵	5×10 ³	Low temperature coefficient
M10N	0.5 to 15	50±25%	<100[0.5MHz] <300[15MHz]	-8 to -2	>300	310[4kA/m]	160	720	10 ⁵	5×10 ³	Low temperature coefficient
M9N	0.3 to 30	45±25%	<200[0.5MHz] <350[30MHz]	-5 to 5	>300	320[4kA/m]	245	955	10 ⁵	5×10 ³	Low temperature coefficient
M11N	5 to 80	25±25%	<100[5MHz] <800[80MHz]	-8 to 8	>300	270[4kA/m]	215	1315	10 ⁵	4.8×10 ³	Low temperature coefficient
M5N	10 to 120	12±25%	<550[10MHz] <1500[120MHz]	-10 to 10	>300	230[8kA/m]	160	2625	10 ⁵	5×10 ³	Low temperature coefficient
V3N	10 to 80	10±25%	<500[10MHz] <1000[80MHz]	-65 to -35	>300	210[16kA/m]	135	3260	10 ⁵	4.7×10 ³	Low temperature coefficient

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

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T2F	0.1 to 1.5	400±25%	<25[0.1MHz] <50[1.5MHz]	2 to 8	>170	420[4kA/m]	180	95	10 ⁵	5.2×10 ³	Stress-insensitive
T3F	0.1 to 3	150±25%	<50[0.1MHz] <200[3MHz]	0 to 5	>150	250[1.6kA/m]	81	200	10 ⁵	5.2×10 ³	Stress-insensitive
T5F	0.1 to 20	55±25%	<150[0.1MHz] <300[20MHz]	-5 to 0	>250	280[4kA/m]	150	860	10 ⁵	5×10 ³	Stress-insensitive
T6F	0.1 to 50	18±25%	<300[0.1MHz] <1000[50MHz]	55 to 65	>250	320[16kA/m]	57	1350	10 ⁵	5.1×10 ³	Stress-insensitive
T7F	0.1 to 100	8±25%	<700[0.1MHz] <1500[100MHz]	15 to 25	>300	220[16kA/m]	130	3500	10 ⁵	5×10 ³	Stress-insensitive
T9F	0.1 to 1000	1	—	—	—	—	—	—	10 ⁵	5.3×10 ³	Stress-insensitive
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 ⁵	5×10 ³	High Q
M9	0.5 to 30	50±25%	<90[0.5MHz] <280[30MHz]	25 to 65	>300	350[4kA/m]	215	597	10 ⁵	5×10 ³	High Q
M11	3 to 80	25±25%	<220[3MHz] <470[80MHz]	30 to 70	>300	290[4kA/m]	190	1195	10 ⁵	5×10 ³	High Q
M5E	10 to 120	17±25%	<450[10MHz] <1000[120MHz]	40 to 120	>300	300[8kA/m]	185	1670	10 ⁵	5.1×10 ³	High Q
V5F	10 to 250	9±25%	<550[10MHz] <1500[250MHz]	25 to 65	>300	180[16kA/m]	110	2865	10 ⁵	4.9×10 ³	High Q
L7R	0.05 to 1	750±25%	<90[1MHz]	7 to 15	>180	400[4kA/m]	290	26	10 ⁵	5.2×10 ³	Low loss
SY20	1 to 5	290±25%	<31[1MHz] <600[5MHz]	15 to 25	>150	330[2kA/m]	250	110	10 ⁵	5.1×10 ³	Low loss

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

Ferrite Cores

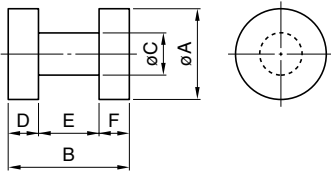
For Coil Cores

DR, FT, THP P, TH, ACD Series

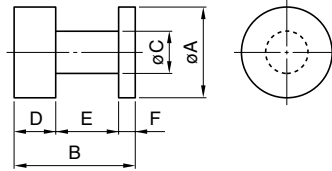
DR SERIES

SHAPES

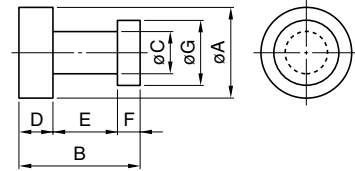
STANDARD TYPE



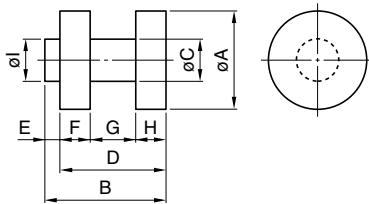
D1 TYPE



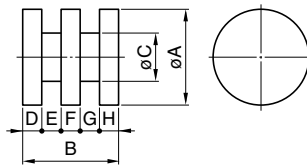
D3 TYPE



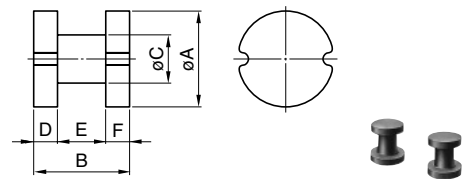
D23 TYPE



MD28 TYPE



M TYPE



PRODUCT IDENTIFICATION

L7H	DR	3 × 1.9	D3
(1)	(2)	(3)	(4) (5)

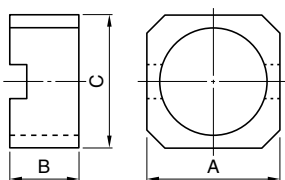
- (1) Material name
- (2) Series
- (3) Outer diameter
- (4) Height
- (5) Type(In case of standard type, this code is omitted.)
- Please consult us about the size of the details separately.

FT(T) SERIES

T: Round shaped flange type

FT: Square shaped flange type and flange type of other shapes that exempted round shaped flange type

SHAPES



PRODUCT IDENTIFICATION

L7H	FT(T)	5 × 2.5 × 3.5	T
(1)	(2)	(3) (4) (5)	(6)

- (1) Material name
- (2) Series
- (3) Outer diameter
- (4) Height
- (5) Inner diameter
- (6) In case of convex, concave, and other irregular types(not standard type), this code is added.
- Please consult us about the size of the details separately.

Ferrite Cores

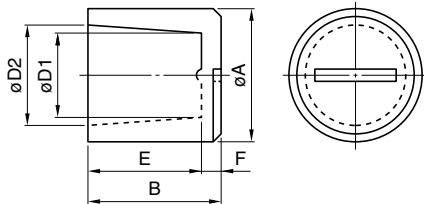
For Coil Cores

DR, FT, THP P, TH, ACD Series

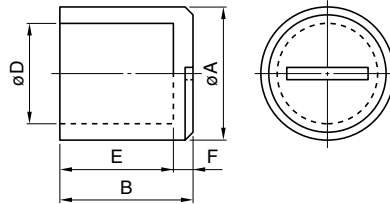
THP SERIES

SHAPES

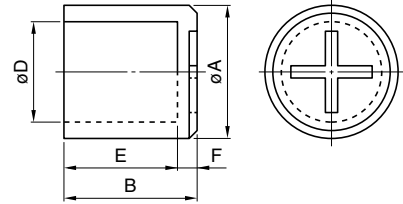
C1 TYPE



C4 TYPE



C7 TYPE



PRODUCT IDENTIFICATION

M8N THP 3.89 × 1.37 C8 (OC3, P0.35)
 (1) (2) (3) (4) (5) (6)

(1) Material name

(2) Series

(3) Outer diameter

(4) Height

(5) Type

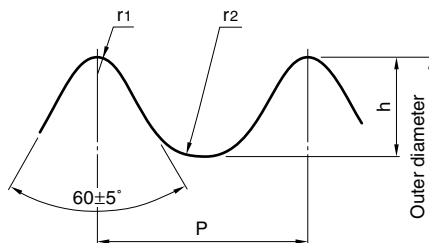
(6) Screw shape

• Please consult us about the size of the details separately.

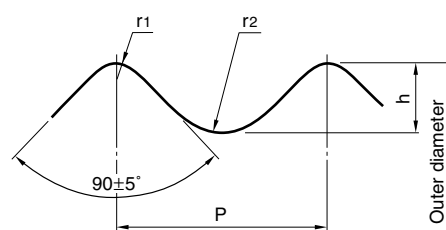


THREADED DIAGRAMS

OC3 TYPE



OC4 TYPE



Dimensions in mm

P	h	r1	r2 max.
0.35±0.03	0.16+0.1, -0.05	0.06±0.03	0.12
0.5±0.03	0.23+0.1, -0.03	0.06±0.03	0.15
0.6±0.03	0.28+0.1, -0.03	0.07±0.03	0.17
0.75±0.03	0.35+0.14, -0.03	0.08±0.03	0.22

Dimensions in mm

P	h	r1	r2 max.
0.5±0.03	0.17+0.06, -0.03	0.06±0.03	0.15
0.6±0.03	0.2+0.08, -0.03	0.07±0.03	0.18
0.75±0.03	0.25+0.1, -0.03	0.07±0.03	0.22
0.8±0.03	0.28+0.1, -0.03	0.07±0.03	0.22

Ferrite Cores

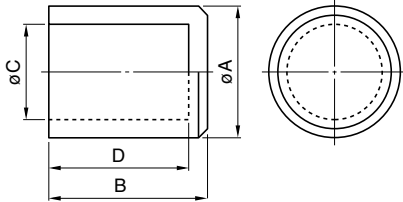
For Coil Cores

DR, FT, THP P, TH, ACD Series

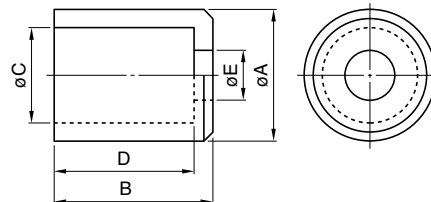
P SERIES(CUP CORE)

SHAPES

STANDARD TYPE



P2 TYPE



PRODUCT IDENTIFICATION

M11	P	6.9 × 6	P2
(1)	(2)	(3)	(4) (5)

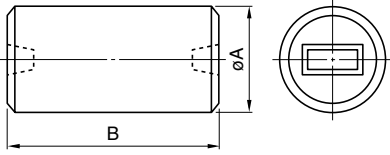
- (1) Material name
 - (2) Series
 - (3) Outer diameter
 - (4) Height
 - (5) Type(In case of standard type, this code is omitted.)
- Please consult us about the size of the details separately.

Ferrite Cores

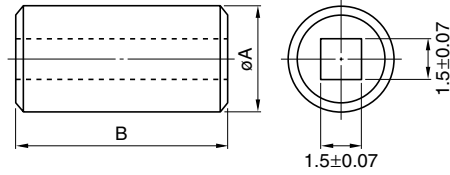
For Coil Cores

DR, FT, THP P, TH, ACD Series

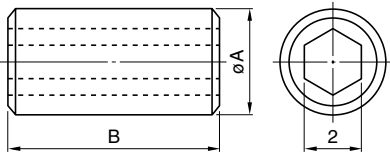
TH SERIES STANDARD TYPE



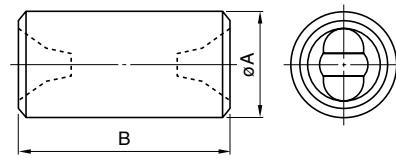
S8 TYPE



S4 TYPE



S14 TYPE



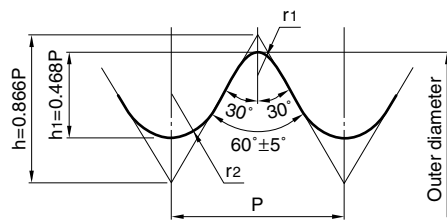
PRODUCT IDENTIFICATION

M5N TH 4.6 × 8 S4 (OC3, P0.75)
(1) (2) (3) (4) (5) (6)

- (1) Material name
 - (2) Series
 - (3) Outer diameter
 - (4) Height
 - (5) Type(In case of standard type, this code is omitted.)
 - (6) Screw shape
- Please consult us about the size of the details separately.

THREADED DIAGRAM

OC3 TYPE



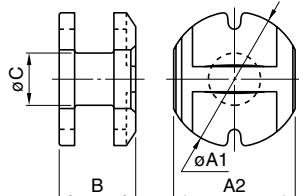
Dimensions in mm				
P±0.03	h	h ₁	r ₁	r ₂ max.
0.35	0.303	0.16+0.1, -0.05	0.06±0.03	0.12
0.5	0.433	0.23+0.1, -0.03	0.06±0.03	0.15
0.6	0.52	0.28+0.1, -0.03	0.07±0.03	0.17
0.75	0.65	0.35+0.14, -0.03	0.08±0.03	0.2
1	0.866	0.47+0.14, -0.03	0.11±0.03	0.29

Ferrite Cores

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ACD SERIES(DR CORE WITH ELECTRODE) SHAPES AND DIMENSIONS



Dimensions in mm

Outer diameter	Part No.	$\phi A1$	A2	B	ϕC
$\phi 10$	L2H ACD105450	10.0±0.12	9.0±0.12	5.4±0.15	5.0±0.15
	L2H ACD105440			4.0±0.12	4.0±0.15
	L2H ACD104036			4.0±0.12	3.6±0.12
$\phi 7.8$	L2H ACD785040	7.8±0.12	7.0±0.1	5.0±0.15	4.0±0.15
	L2H ACD785030			3.5±0.1	3.0±0.15
	L2H ACD783526			3.5±0.1	2.6±0.12
$\phi 5.8$	L2H ACD584530	5.8±0.1	5.2±0.1	4.5±0.1	3.0±0.12
	L2H ACD584523			4.5±0.1	2.3±0.12
$\phi 4.5$	L2H ACD453222	4.5±0.1	4.0±0.1	3.2±0.1	2.2±0.12
	L2H ACD453218			3.2±0.1	1.8±0.12
$\phi 3.2$	L2H ACD322515	3.2±0.1	2.85±0.1	2.5±0.1	1.5±0.1

PRODUCT IDENTIFICATION

L2H	ACD	10	50	40
(1)	(2)	(3)	(4)	(5)

- (1) Material name
- (2) Series with electrode
- (3) Outer diameter
- (4) Height
- (5) Core diameter

• Please consult us about the size of the details separately.

• Other various shapes are available. Please contact us with your desired shapes and applications.

• All specifications are subject to change without notice.