

DATA SHEET

RM5

RM cores and accessories

Product specification
Supersedes data of March 1999
File under Ferrite Ceramics, MA01

1999 Dec 23

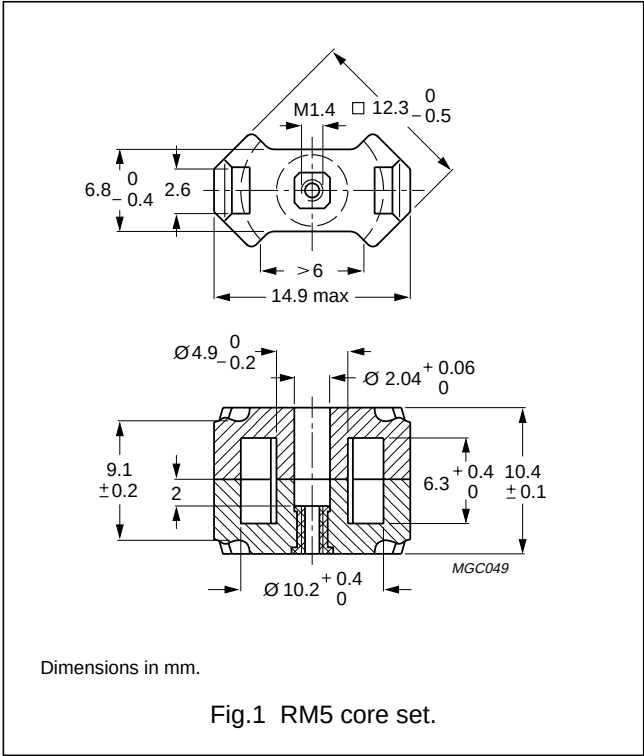
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CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	1.01	mm^{-1}
V_e	effective volume	450	mm^3
l_e	effective length	21.4	mm
A_e	effective area	21.2	mm^2
$A_{\min}$	minimum area	14.8	mm^2
m	mass of set	≈ 3.0	g



Core sets for filter applications

Clamping force for A_L measurements, $25 \pm 10 \text{ N}$.

GRADE	A_L (nH)	μ_e	AIR GAP (μm)	TYPE NUMBER (WITH NUT)	TYPE NUMBER (WITHOUT NUT)
3D3	$40 \pm 3\%$	≈ 33	≈ 700	RM5-3D3-E40/N	RM5-3D3-E40
	$63 \pm 3\%$	≈ 51	≈ 400	RM5-3D3-E63/N	RM5-3D3-E63
	$100 \pm 3\%$	≈ 82	≈ 300	RM5-3D3-E100/N	RM5-3D3-E100
	$800 \pm 25\%$	≈ 630	≈ 0	—	RM5-3D3
3H3	$160 \pm 3\%$	≈ 130	≈ 200	RM5-3H3-A160/N	RM5-3H3-A160
	$250 \pm 3\%$	≈ 200	≈ 120	RM5-3H3-A250/N	RM5-3H3-A250
	$315 \pm 3\%$	≈ 250	≈ 90	RM5-3H3-A315/N	RM5-3H3-A315
	$400 \pm 5\%$	≈ 320	≈ 70	RM5-3H3-A400/N	RM5-3H3-A400
	$1650 \pm 25\%$	≈ 1310	≈ 0	—	RM5-3H3

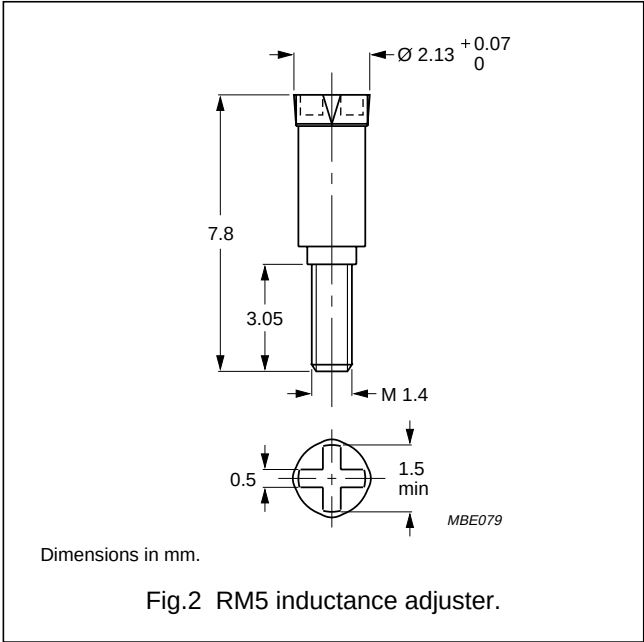
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INDUCTANCE ADJUSTERS

General data

PARAMETER	SPECIFICATION
Material of head and thread	polypropylene (PP), glass fibre reinforced
Maximum operating temperature	125 °C



Inductance adjuster selection chart

GRADE	A _L (nH)	TYPES FOR LOW ADJUSTMENT	ΔL/L % ⁽¹⁾	TYPES FOR MEDIUM ADJUSTMENT	ΔL/L % ⁽¹⁾	TYPES FOR HIGH ADJUSTMENT	ΔL/L % ⁽¹⁾
3H3	63	—	—	—	—	ADJ-RM4/RM5-RED	23
	100	—	—	ADJ-RM4/RM5-RED	15	ADJ-RM4/RM5-BROWN	24
	160	ADJ-RM4/RM5-RED	11	ADJ-RM4/RM5-BROWN	15	ADJ-RM4/RM5-GREY	28
	250	ADJ-RM4/RM5-RED	6	ADJ-RM4/RM5-BROWN	10	ADJ-RM4/RM5-GREY	17
	315	ADJ-RM4/RM5-BROWN	7	ADJ-RM4/RM5-GREY	13	—	—
	400	ADJ-RM4/RM5-BROWN	5	ADJ-RM4/RM5-BLACK	14	—	—
3D3	40	—	—	ADJ-RM4/RM5-GREEN	15	ADJ-RM4/RM5-RED	30
	63	—	—	—	—	ADJ-RM4/RM5-RED	20
	100	—	—	ADJ-RM4/RM5-RED	14	—	—

Note

1. Maximum adjustment range.

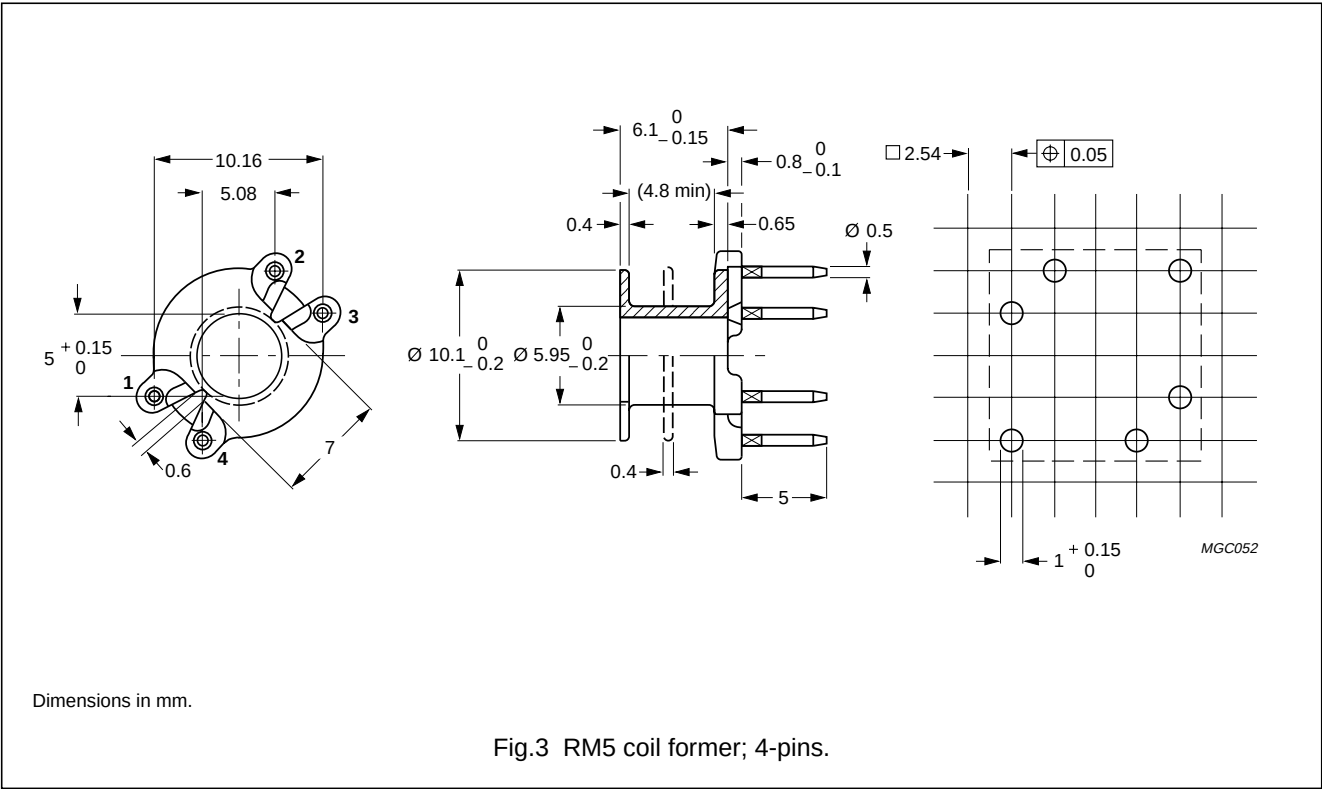
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COIL FORMER

General data

PARAMETER	SPECIFICATION
Coil former material	phenolformaldehyde (PF), glass-reinforced, flame retardant in accordance with "UL 94V-0"; UL file number E167521(M)
Pin material	copper-tin alloy (CuSn), tin-lead alloy (SnPb) plated
Maximum operating temperature	180 °C, "IEC 60085" class H
Resistance to soldering heat	"IEC 60068-2-20", Part 2, Test Tb, method 1B, 350 °C, 3.5 s
Solderability	"IEC 60068-2-20", Part 2, Test Ta, method 1



Winding data for 4-pins RM5 coil former

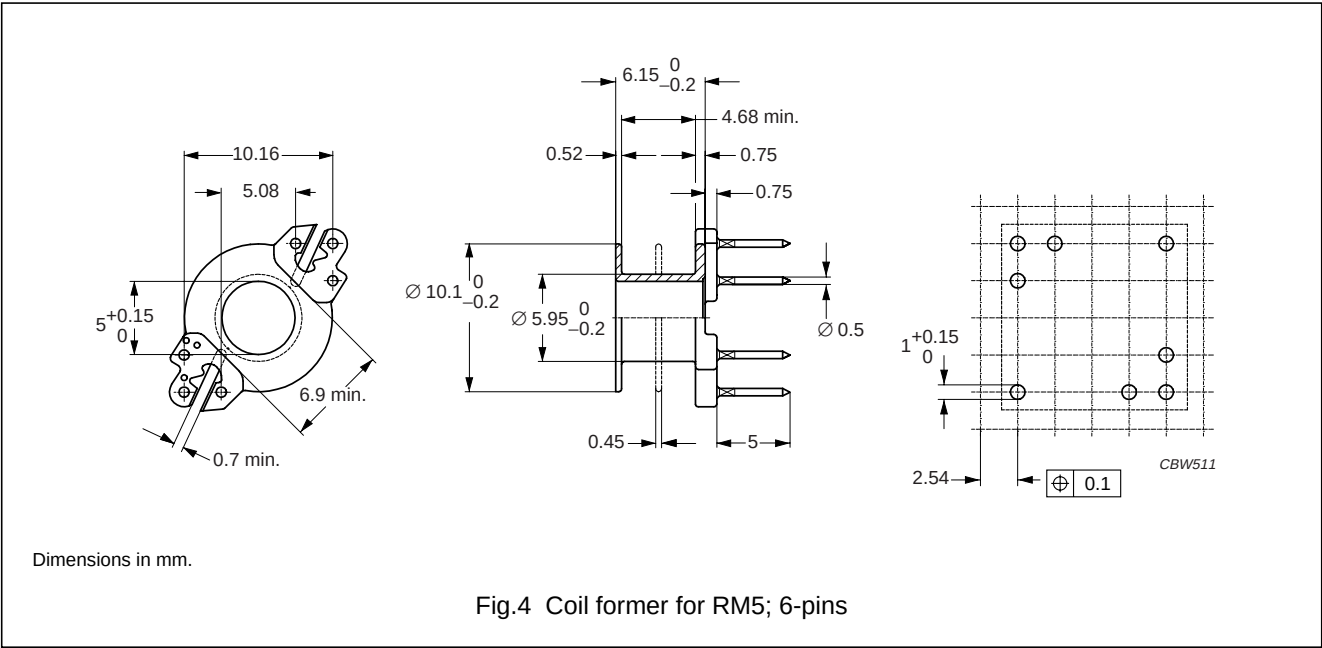
NUMBER OF SECTIONS	NUMBER OF PINS	PIN POSITIONS USED	WINDING AREA (mm ²)	WINDING WIDTH (mm)	AVERAGE LENGTH OF TURN (mm)	TYPE NUMBER
1	4	all	9.5	4.8	25	CSV-RM5-1S-4P
2	4	all	2 × 4.35	2 × 2.2	25	CSV-RM5-2S-4P

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General data coil former

PARAMETER	SPECIFICATION
Coil former material	unsaturated polyester (UP), glass-reinforced, flame retardant in accordance with "UL 94V-0"; UL file number E61040 (M)
Solder pad material	copper-tin alloy CuSn), tin-lead alloy (SnPb) plated
Maximum operating temperature	180 °C, "IEC 60085" class H
Resistance to soldering heat	"IEC 60068-2-20", Part 2, Test Tb, method 1B, 350 °C, 3.5 s
Solderability	"IEC 60068-2-20", Part 2, Test Ta, method 1



Winding data for 6-pins RM5 coil former

NUMBER OF SECTIONS	NUMBER OF PINS	WINDING AREA (mm ²)	WINDING WIDTH (mm)	AVERAGE LENGTH OF TURN (mm)	TYPE NUMBER
1	6	9.2	4.68	24.9	CPV-RM5-1S-6P-G

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MOUNTING PARTS

General data

ITEM	SPECIFICATION
Clamping force	≈12 N
Clip material	steel
Clip plating	silver (Ag)
Solderability	"IEC 60068-2-20", Part 2, Test Ta, method 1
Type number	CLI/P-RM4/5

