

DATA SHEET

RM5

RM cores and accessories

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

1999 Dec 23

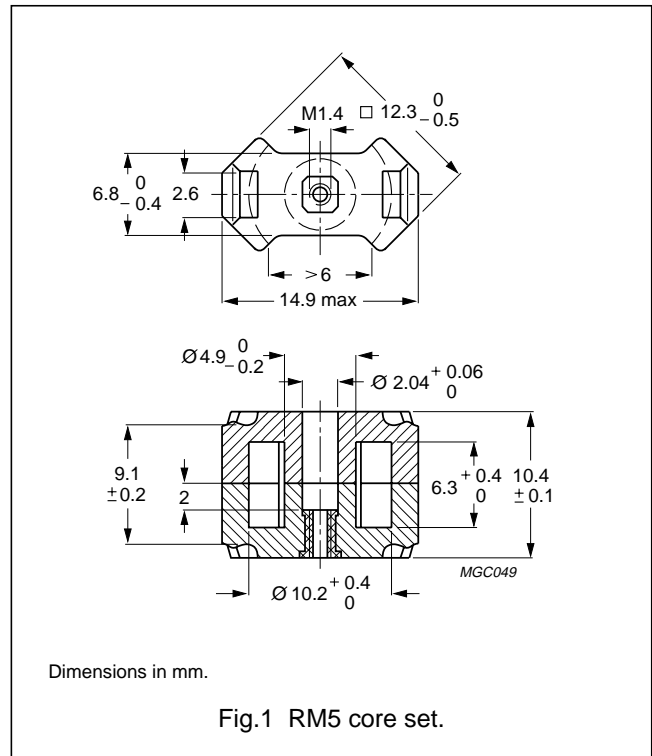
RM cores and accessories

RM5

CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(I/A)$	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 ± 10 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

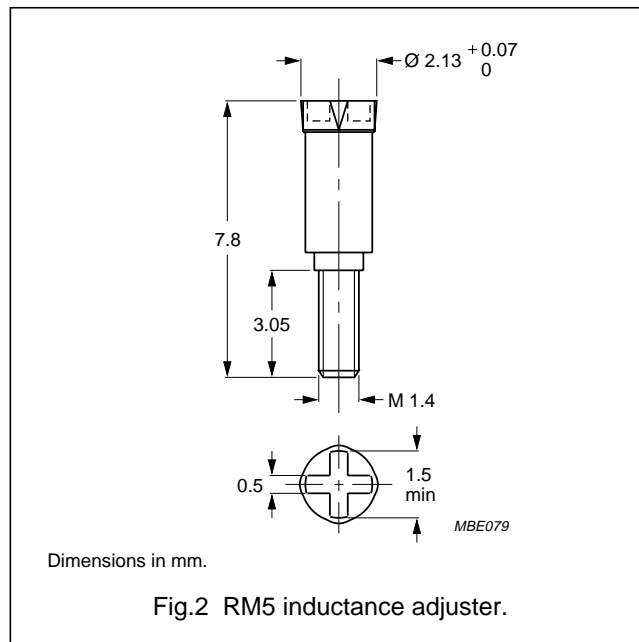
RM cores and accessories

RM5

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	$\Delta L/L$ % ⁽¹⁾	TYPES FOR MEDIUM ADJUSTMENT	$\Delta L/L$ % ⁽¹⁾	TYPES FOR HIGH ADJUSTMENT	$\Delta L/L$ % ⁽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.

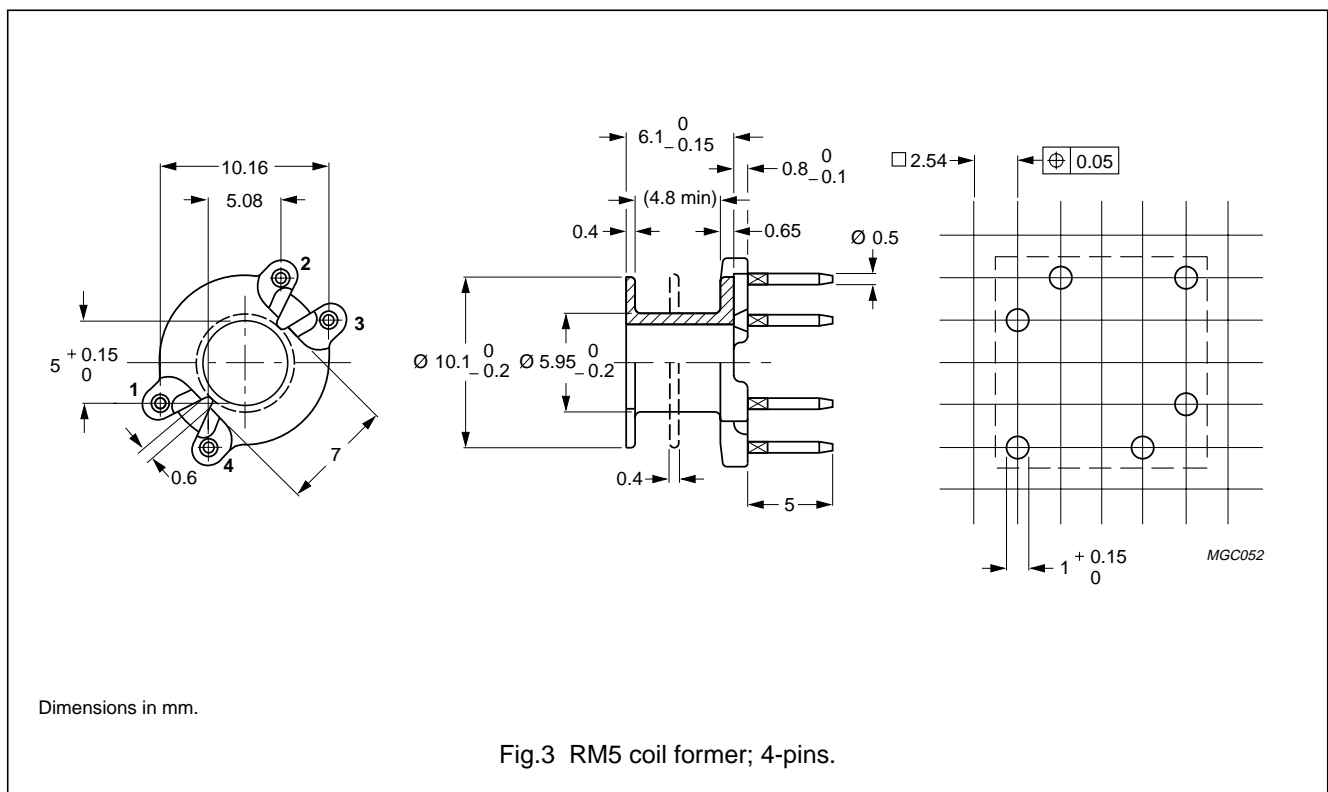
RM cores and accessories

RM5

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

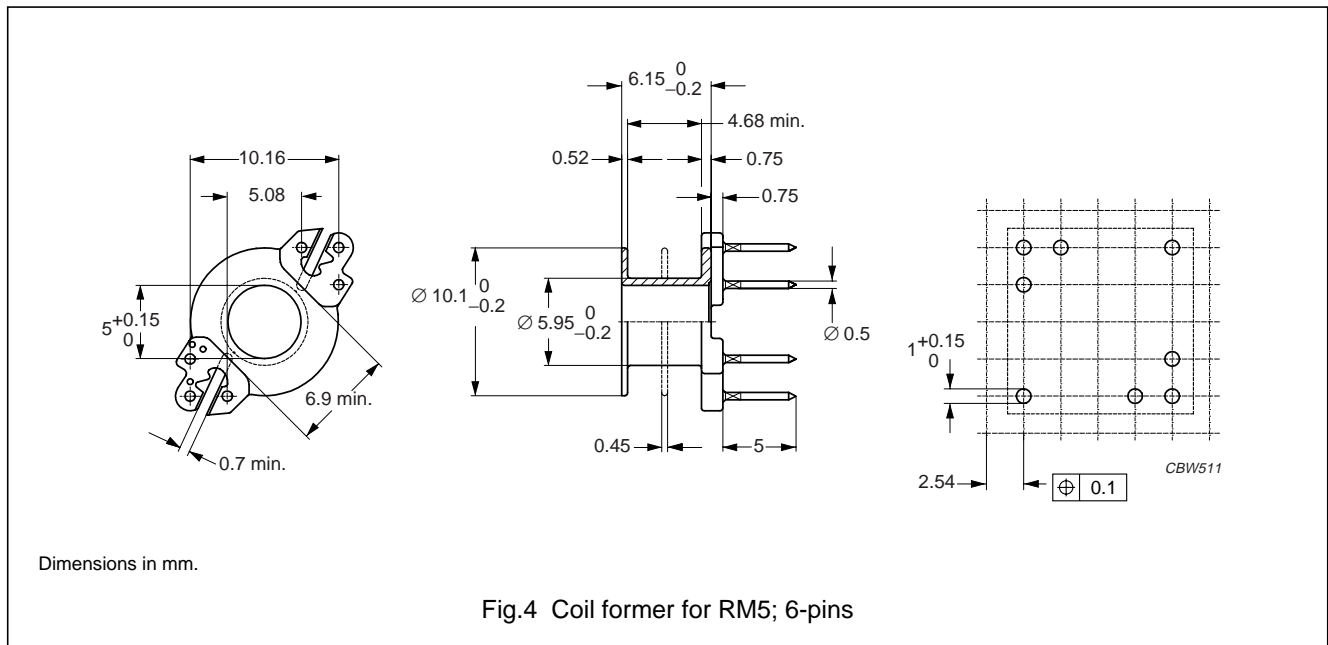
NUMBER OF SECTIONS	NUMBER OF PINS	PIN POSITIONS USED	WINDING AREA (mm ²)	WINDING WIDTH (mm)	AVERAGE LENGTH OF TURN (mm)	TYPE NUMBER
1	4	all	9.5	4.8	25	CSV-RM5-1S-4P
2	4	all	2 × 4.35	2 × 2.2	25	CSV-RM5-2S-4P

RM cores and accessories

RM5

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

RM cores and accessories

RM5

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

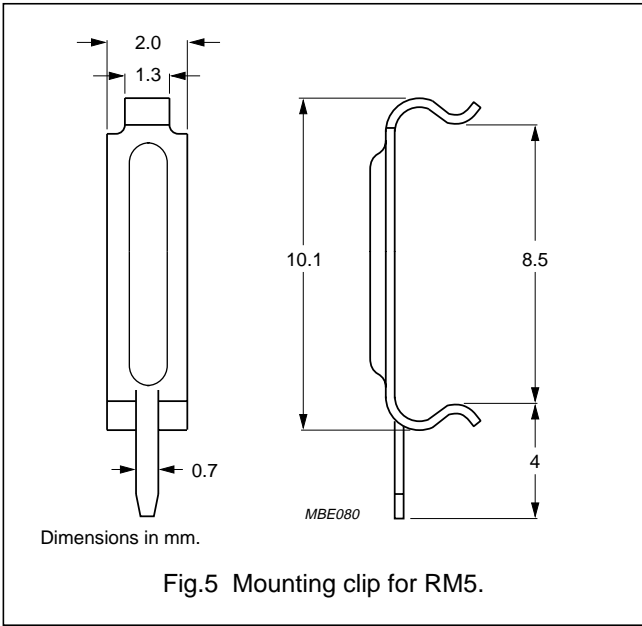


Fig.5 Mounting clip for RM5.