

# DATA SHEET

## **RM8**

### **RM cores and accessories**

Product specification  
Supersedes data of November 1997  
File under Ferrite Ceramics, MA01

1999 Dec 23

RM cores and accessories

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CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	0.683	mm <sup>-1</sup>
$V_e$	effective volume	1850	mm <sup>3</sup>
$l_e$	effective length	35.5	mm
$A_e$	effective area	52.0	mm <sup>2</sup>
$A_{min}$	minimum area	39.5	mm <sup>2</sup>
$m$	mass of set	≈10.9	g

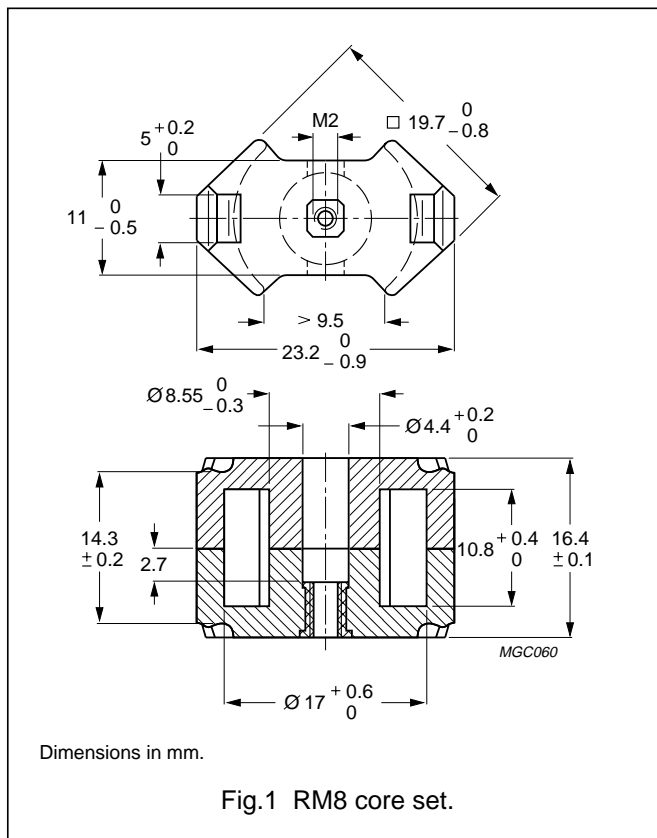


Fig.1 RM8 core set.

Core sets for filter applications

Clamping force for  $A_L$  measurements, 60 ±30 N.

GRADE	$A_L$ (nH)	$\mu_e$	AIR GAP (μm)	TYPE NUMBER (WITH NUT)	TYPE NUMBER (WITHOUT NUT)
3D3	100 ±3%	≈54	≈750	RM8-3D3-E100/N	RM8-3D3-E100
	160 ±3%	≈87	≈400	RM8-3D3-E160/N	RM8-3D3-E160
	1240 ±25%	≈670	≈0	—	RM8-3D3
3H3	250 ±3%	≈135	≈210	RM8-3H3-A250/N	RM8-3H3-A250
	315 ±3%	≈170	≈160	RM8-3H3-A315/N	RM8-3H3-A315
	400 ±3%	≈220	≈130	RM8-3H3-A400/N	RM8-3H3-A400
	630 ±5%	≈340	≈100	RM8-3H3-A630/N	RM8-3H3-A630
	2850 ±25%	≈1540	≈0	—	RM8-3H3

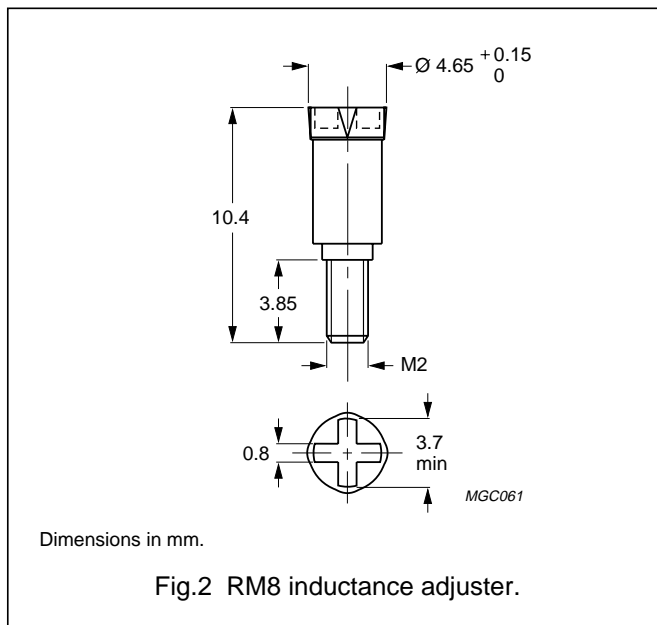
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INDUCTANCE ADJUSTERS

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 <sub>L</sub> (nH)	TYPES FOR LOW ADJUSTMENT	ΔL/L % <sup>(1)</sup>	TYPES FOR MEDIUM ADJUSTMENT	ΔL/L % <sup>(1)</sup>	TYPES FOR HIGH ADJUSTMENT	ΔL/L % <sup>(1)</sup>
3H3	63	–	–	–	–	ADJ-P22/RM8-RED	24
	100	–	–	ADJ-P22/RM8-RED	16	ADJ-P22/RM8-ORANGE	21
	160	–	–	ADJ-P22/RM8-ORANGE	14	ADJ-P22/RM8-YELLOW	18
	250	ADJ-P22/RM8-RED	7	ADJ-P22/RM8-YELLOW	12	ADJ-P22/RM8-WHITE	18
	315	ADJ-P22/RM8-YELLOW	9	ADJ-P22/RM8-WHITE	13	ADJ-P22/RM8-BROWN	21
	400	ADJ-P22/RM8-YELLOW	7	ADJ-P22/RM8-WHITE	10	ADJ-P22/RM8-BROWN	15
	630	ADJ-P22/RM8-YELLOW	4	ADJ-P22/RM8-BROWN	8	ADJ-P22/RM8-BLACK	13
3D3	63	–	–	–	–	ADJ-P22/RM8-RED	23
	100	–	–	ADJ-P22/RM8-RED	15	ADJ-P22/RM8-ORANGE	22
	160	–	–	ADJ-P22/RM8-ORANGE	14	ADJ-P22/RM8-YELLOW	17

Note

1. Maximum adjustment range.

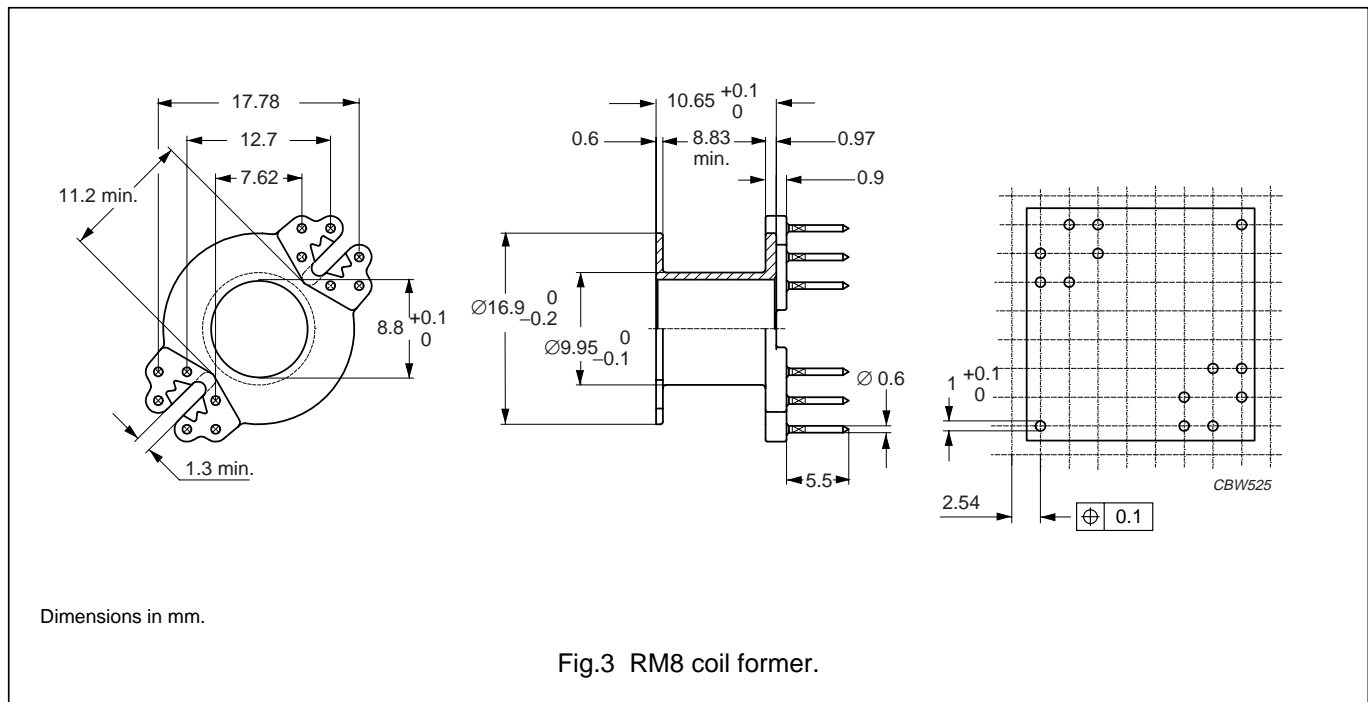
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COIL FORMER

General data

PARAMETER	SPECIFICATION
Coil former material	unsaturated polyester (UP), glass-reinforced, flame retardant in accordance with UL 94V-0; UL file number E61040 (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 RM8 coil former

NUMBER OF SECTIONS	NUMBER OF PINS	PIN POSITIONS USED	AVERAGE LENGTH OF TURN (mm)	WINDING AREA (mm <sup>2</sup> )	WINDING WIDTH (mm)	TYPE NUMBER
1	8	1, 2, 5, 6, 7, 8, 11, 12	42	30	9.1	CSV-RM8-1S-8P-G
1	12	all	42	30	9.1	CSV-RM8-1S-12P-G
2	8	1, 2, 5, 6, 7, 8, 11, 12	42	2 × 13.5	2 × 4.3	CSV-RM8-2S-8P-G
2	12	all	42	2 × 13.5	2 × 4.3	CSV-RM8-2S-12P-G

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## MOUNTING PARTS

## General data

ITEM	SPECIFICATION
Clamping force	≈30 N
Clip material	steel
Clip plating	silver (Ag)
Solderability	"IEC 60068-2-20", Part 2, Test Ta, method 1
Type number	CLI/P-RM8

