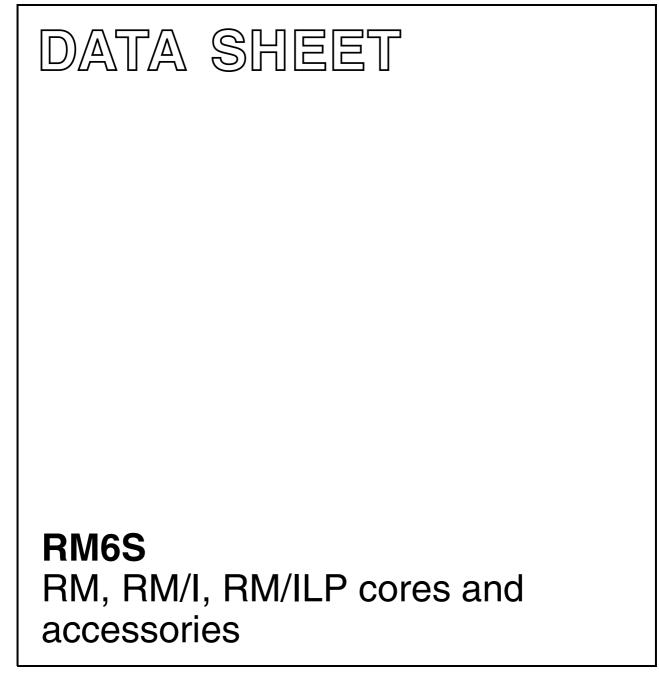
# FERROXCUBE



Supersedes data of September 2004

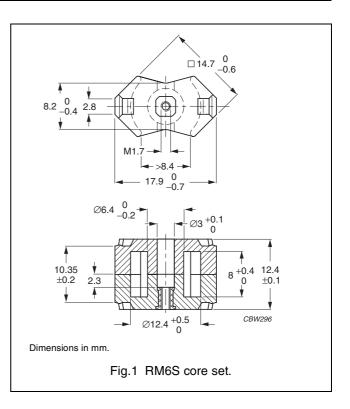
2008 Sep 01



### CORE SETS

### Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
Σ(I/A)	core factor (C1)	0.863	mm <sup>-1</sup>
Ve	effective volume	840	mm <sup>3</sup>
l <sub>e</sub>	effective length	27.3	mm
A <sub>e</sub>	effective area	31.0	mm <sup>2</sup>
A <sub>min</sub>	minimum area	23.8	mm <sup>2</sup>
m	mass of set	≈ 5.1	g



## Core sets for filter applications

Clamping force for  $A_L$  measurements, 40  $\pm 20$  N.

GRA	DE	A <sub>L</sub> (nH)	μ <sub>e</sub>	TOTAL AIR GAP (μm)	TYPE NUMBER (WITH NUT)	TYPE NUMBER (WITHOUT NUT)
3D3	sup	63 ±3%	≈ 44	≈ 850	RM6S-3D3-E63/N	RM6S-3D3-E63
		100 ±3%	≈ 70	≈ 460	RM6S-3D3-E100/N	RM6S-3D3-E100
		160 ±3%	≈ 112	≈ 250	RM6S-3D3-A160/N	RM6S-3D3-A160
		950 ±25%	≈ 670	≈ 0	-	RM6S-3D3
3H3	sup	160 ±3%	≈ 112	≈ 280	RM6S-3H3-A160/N	RM6S-3H3-A160
		250 ±3%	≈ 175	≈ 160	RM6S-3H3-A250/N	RM6S-3H3-A250
		315 ±3%	≈ 221	≈ 120	RM6S-3H3-A315/N	RM6S-3H3-A315
		400 ±3%	≈ 280	≈ 90	RM6S-3H3-A400/N	RM6S-3H3-A400
		2100 ±25%	≈ 1470	≈ 0	-	RM6S-3H3

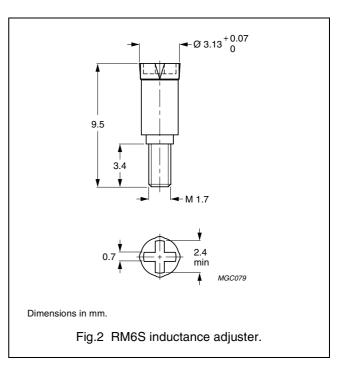
# RM6S

# RM6S

### **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 sup (applies to all types)

GRADE	A <sub>L</sub> (nH)	TYPES FOR LOW ADJUSTMENT	Δ <b>L/L</b> <sup>(1)</sup> %	TYPES FOR MEDIUM ADJUSTMENT	∆ <b>L/L</b> <sup>(1)</sup> %	TYPES FOR HIGH ADJUSTMENT	∆ <b>L/L</b> <sup>(1)</sup> %
3H3	40	-	-	-	-	ADJ-RM6-GREEN	20
	63	_	_	ADJ-RM6-GREEN	14	ADJ-RM6-RED	22
	100	ADJ-RM6-GREEN	10	ADJ-RM6-RED	16	-	-
	160	ADJ-RM6-GREEN	6	ADJ-RM6-RED	11	ADJ-RM6-WHITE	19
	200	ADJ-RM6-RED	9	ADJ-RM6-WHITE	15	ADJ-RM6-VIOLET	19
	250	ADJ-RM6-WHITE	12	ADJ-RM6-VIOLET	14	ADJ-RM6-BROWN	20
	315	ADJ-RM6-WHITE	9	ADJ-RM6-BROWN	15	ADJ-RM6-BLACK	23
	400	ADJ-RM6-VIOLET	8	ADJ-RM6-BLACK	16	ADJ-RM6-GREY	26
	630	ADJ-RM6-BLACK	9	ADJ-RM6-GREY	15	-	-
	1000	ADJ-RM6-BLACK	5	ADJ-RM6-GREY	9	-	-
	1250	-	-	ADJ-RM6-GREY	5	-	-
3D3	40	-	-	-	_	ADJ-RM6-GREEN	19
	63	-	-	ADJ-RM6-GREEN	14	ADJ-RM6-RED	22
	100	ADJ-RM6-GREEN	9	ADJ-RM6-RED	15	ADJ-RM6-WHITE	27
	160	ADJ-RM6-RED	9	ADJ-RM6-WHITE	16	_	-

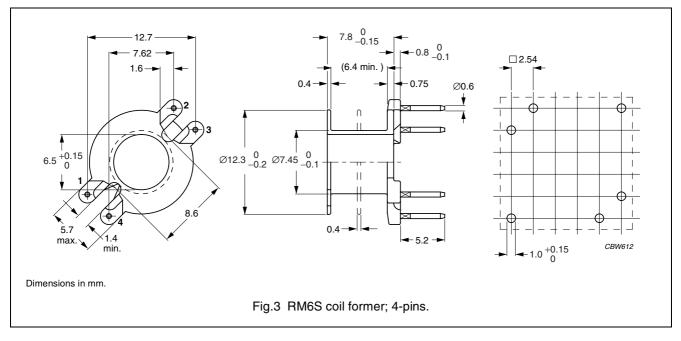
## Note

1. Maximum adjustment range.

## **COIL FORMERS**

### General data

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



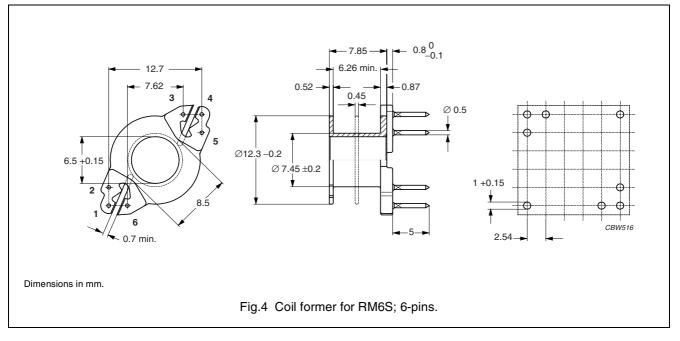
### Winding data and area product for 4-pins RM6S coil former

NUMBER OF SECTIONS	NUMBER OF PINS	PIN POSITIONS USED	WINDING AREA (mm²)	WINDING WIDTH (mm)	AVERAGE LENGTH OF TURN (mm)	AREA PRODUCT Ae x Aw (mm <sup>4</sup> )	TYPE NUMBER
1	4	all	15	6.4	30	465	CSV-RM6S/R-1S-4P
2	4	all	2  imes 7.0	2 × 3.0	30	2 x 217	CSV-RM6S/R-2S-4P

# RM6S

#### **General data**

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



## Winding data and area product for RM6S coil former

NUMBER OF SECTIONS	NUMBER OF PINS	PIN POSITIONS USED	WINDING AREA (mm²)	WINDING WIDTH (mm)	AVERAGE LENGTH OF TURN (mm)	AREA PRODUCT Ae x Aw (mm <sup>4</sup> )	TYPE NUMBER
1	6	all	15.0	6.3	30.0	465	CSV-RM6S-1S-6P-G <sup>(1)</sup>
1	5	1, 2, 3, 5, 6	15.0	6.3	30.0	465	CSV-RM6S-1S-5P-G <sup>(1)</sup>
1	4	2, 3, 5, 6	15.0	6.3	30.0	465	CSV-RM6S-1S-4P-G <sup>(1)</sup>
2	6	all	$2 \times 7.0$	2×3	30.0	2 x 217	CSV-RM6S-2S-6P-G <sup>(1)</sup>

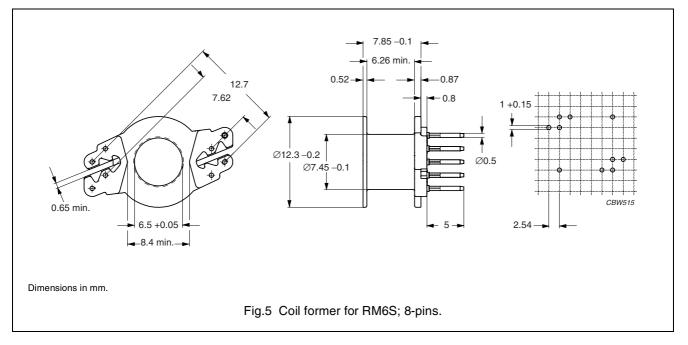
#### Note

1. Also available with post-inserted pins.

# RM6S

#### **General data**

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



## Winding data and area product for RM6S coil former

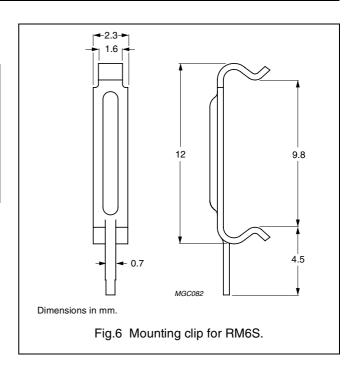
NUMBER OF SECTIONS	NUMBER OF PINS	WINDING AREA (mm²)	WINDING WIDTH (mm)	AVERAGE LENGTH OF TURN (mm)	AREA PRODUCT Ae x Aw (mm <sup>4</sup> )	TYPE NUMBER
1	8	14.5	6.26	30.7	450	CSV-RM6S-1S-8P

# RM6S

## **MOUNTING PARTS**

## General data

ITEM	SPECIFICATION
Clamping force	≈20 N
Clip material	steel
Clip plating	silver (Ag)
Solderability	<i>"IEC 60068-2-20"</i> ,
	Part 2, Test Ta, method 1
Type number	CLI/P-RM6



## DATA SHEET STATUS DEFINITIONS

DATA SHEET STATUS	PRODUCT STATUS	DEFINITIONS
Preliminary specification	Development	This data sheet contains preliminary data. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.
Product specification	Production	This data sheet contains final specifications. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.

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### **PRODUCT STATUS DEFINITIONS**

STATUS	INDICATION	DEFINITION
Prototype	prot	These are products that have been made as development samples for the purposes of technical evaluation only. The data for these types is provisional and is subject to change.
Design-in	des	These products are recommended for new designs.
Preferred		These products are recommended for use in current designs and are available via our sales channels.
Support	sup	These products are <b>not</b> recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.

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