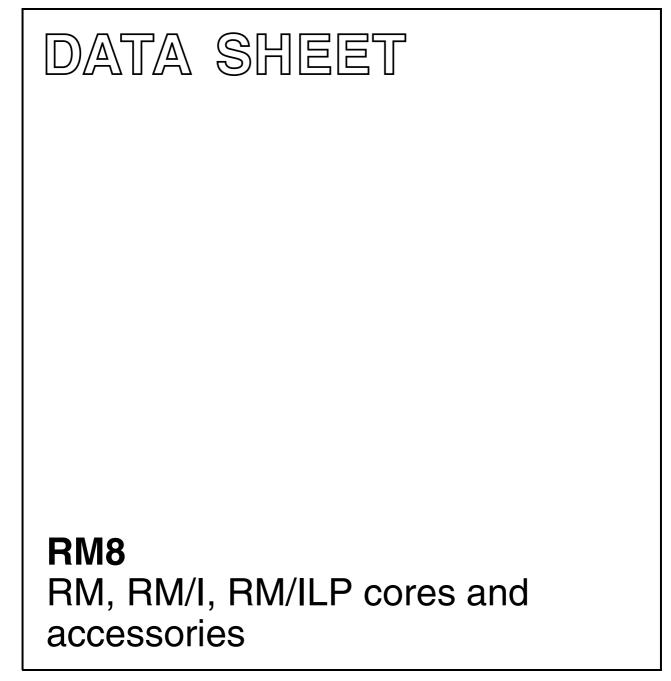
FERROXCUBE



Supersedes data of September 2004

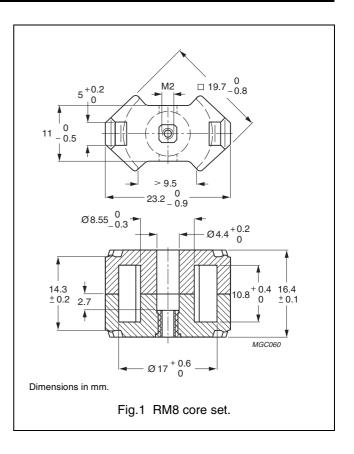
2008 Sep 01



CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
Σ(I/A)	core factor (C1)	0.683	mm ⁻¹
Ve	effective volume	1850	mm ³
l _e	effective length	35.5	mm
A _e	effective area	52.0	mm ²
A _{min}	minimum area	39.5	mm ²
m	mass of set	≈ 11	g



Core sets for filter applications

Clamping force for A_L measurements, 60 \pm 30 N.

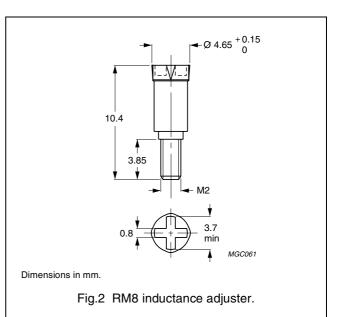
GRADE	A _L (nH)	μ _e	TOTAL AIR GAP (μm)	TYPE NUMBER (WITH NUT)	TYPE NUMBER (WITHOUT NUT)
3D3 sup	100 ±3%	≈ 54	≈ 840	RM8-3D3-E100/N	RM8-3D3-E100
	160 ±3%	≈ 87	≈ 450	RM8-3D3-E160/N	RM8-3D3-E160
	1240 ±25%	≈ 675	≈ 0	-	RM8-3D3
3H3 sup	250 ±3%	≈ 136	≈ 290	RM8-3H3-A250/N	RM8-3H3-A250
	315 ±3%	≈ 171	≈ 220	RM8-3H3-A315/N	RM8-3H3-A315
	400 ±3%	≈ 217	≈ 160	RM8-3H3-A400/N	RM8-3H3-A400
	630 ±5%	≈ 342	≈ 90	RM8-3H3-A630/N	RM8-3H3-A630
	2850 ±25%	≈ 1 550	≈ 0	-	RM8-3H3

RM8

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 _L (nH)	TYPES FOR LOW ADJUSTMENT	∆ L/L % ⁽¹⁾	TYPES FOR MEDIUM ADJUSTMENT	∆ L/L % ⁽¹⁾	TYPES FOR HIGH ADJUSTMENT	∆ L/L % ⁽¹⁾
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-WHITE	22
	250	ADJ-P22/RM8-RED	7	ADJ-P22/RM8-ORANGE	10	ADJ-P22/RM8-WHITE	18
	315	ADJ-P22/RM8-ORANGE	7	ADJ-P22/RM8-WHITE	13	ADJ-P22/RM8-BROWN	21
	400	ADJ-P22/RM8-ORANGE	5	ADJ-P22/RM8-WHITE	10	ADJ-P22/RM8-BROWN	15
	630	ADJ-P22/RM8-WHITE	6	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-WHITE	22

Note

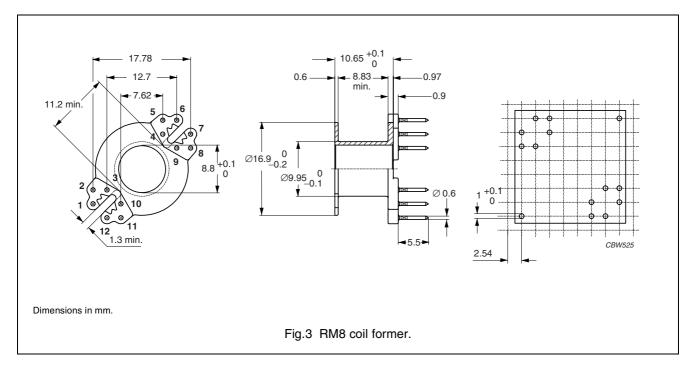
1. Maximum adjustment range.

RM8

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 (Sn) plated
Maximum operating temperature	180 °C, <i>"IEC 60085"</i> , 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 and area product for RM8 coil former

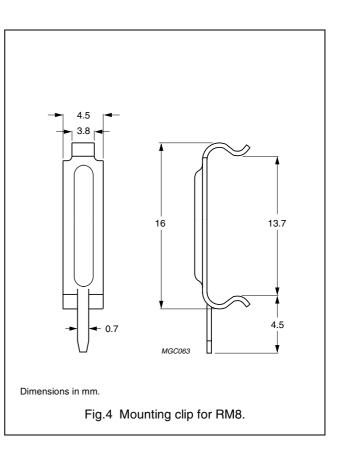
NUMBER OF SECTIONS	NUMBER OF PINS	PIN POSITIONS USED	AVERAGE LENGTH OF TURN (mm)	WINDING AREA (mm²)	WINDING WIDTH (mm)	AREA PRODUCT Ae x Aw (mm ⁴)	TYPE NUMBER
1	8	1, 2, 5, 6, 7, 8, 11, 12	42	30	9.1	1560	CSV-RM8-1S-8P-G ⁽¹⁾
1	12	all	42	30	9.1	1560	CSV-RM8-1S-12P-G ⁽¹⁾
2	8	1, 2, 5, 6, 7, 8, 11, 12	42	2 × 13.5	2×4.3	2 x 702	CSV-RM8-2S-8P
2	12	all	42	2 × 13.5	2×4.3	2 x 702	CSV-RM8-2S-12P-G
1	4	3, 4, 9, 10	42	30	9.1	1560	CSV-RM8-1S-4P
1	5	1, 2, 5, 8, 11	42	30	9.1	1560	CSV-RM8-1S-5P
2	5	1, 2, 5, 8, 11	42	2 × 13.5	2×4.3	2 x 702	CSV-RM8-2S-5P

Note 1. Also available with post-inserted pins.

MOUNTING PARTS

General data

ITEM	SPECIFICATION
Clamping force	≈30 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-RM8



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 not recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.