



SPECIFICATION APPROVAL

Soft ferrite core

DMEGC Part Number DMR44 ER14,5/6

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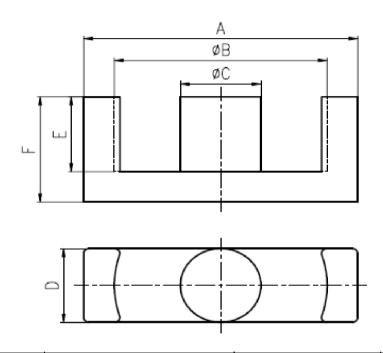
CUSTOMER:

LEPCOS





OUTLINE AND DIMENSIONS



A	В	C	D	E	F
14.5±0.2	11.8±0.2	4.7±0.1	6.7±0.15	1.65±0.1	2.95±0.1

Core Factor	Effective Length	Effective Area	Effective Volume
C1(mm ⁻¹)	Le(mm)	Ae(mm ²)	Ve(mm ³)
1.01	18.6	18.3	340.38





APPEARANCE REQUIREMENT

1 Tidiness: Clean, no water stain, no foreign substances like dust, alumina and etc.

2. Chips

	Functional surface			Non Functional Surface		
Core Size(Dim. A)	(mm^2)	(mm)		(mm ²)	(mm)	
	Max Area	Depth	Max Qty.	Max Area	Depth	Max Qty.
≤10mm	0.6	0.3	2	1	0.5	2
10mm~20mm	1	0.3	2	2	0.5	2
20mm~30mm	1.5	0.3	2	2.5	0.5	2
>30	2	0.3	2	4	0.5	2
	Areas < 0.3mm2 are not counted					

- 3 Cracks: No cracks are allowed except moire(tiny surface cracks) and R angle cracks. No any cracks might affect the electric property of the cores are allowed as specifically required by customer and judged by the criteria agreed mutually by DMEGC and customer.
- 4. Bur(Flash)

No visible ragged edges are allowed.

Burrs can not be higher than the main plane during visual inspection.

Length of the burrs are supposed to be shorter than one fourth of the length of the core where the burrs occurred.

- 1. Above standards were made according to IEC-60424.
- 2. Those not included in above standards may refer to IEC-60424.
- 3 Dimension A mentioned above is referred to the outer dimension.
- 4. Above standards are the general standards for the designing of the visual appearance of DMEGC ferrite cores. Customers' specific requirement other than those included above will be negotiated between DMEGC and customer and documented in the specification.





ELECTROMAGNETIC AND MECHANICAL PROPERTY

Measurement item	Specification	Measurement condition	
AL	1500nH/N2±25%	HP4284A Instrument 1kHz,0.25V Frequency and Voltage 1~2kg Pressure 25°C±2°C Temperature	
P Core Loss	≤0.22W/SET	SY8232 B-H Instrument Φ0.35mm; N=10Ts Coil 100kHz Frequency: 200mT Flux Density 100°C±2°C Temperature	





DMR44 Material Characteristics

CHARACTERISTICS	CONDITIONS		VALUE
μ _i Initial Permeability	10kHz, B<0.25mT	25°C	2400±25%
Bs (mT)	50Hz, 1194A/m	25℃	510
Saturation Magnetic Flux Density		100°C	400
Br (mT)		25°C	110
Residual Magnetic Flux Density		100°C	60
Hc (A/m)		25°C	15
Coercive Force		100°C	6
	100kHz, 200mT	25℃	600
Pv (mW/cm ³)		60°C	400
Power Loss		100°C	300
		120°C	380
Tc (°C) Curie Temperature	10kHz, B<0.25mT		>215
ρ (Ω·m) Resistivity		25℃	7.5
đ (g/cm³) Density		25°C	4.8

The above typical data are calculated from the standard tarord core. The specific property of any parts will be adjusted a little based on these data.





INSPECTION RULE

- 1 Cores inspection is conducted per GB/T2828.1-2012 with visual appearance and dimension II ,electromagnetic property S-3,AQL:0.65.
- 2 Customer is expected to complete the inspection within 10 days after receipt of the cores and inform supplier the results of cores inspection in writing or the cores would be treated as qualified.

NOTE

- 1 After receiving DMEGC Spec, please sign and send it back to DMEGG within 7 days. Otherwise, it is meant that Spec has been approved by customer side.
- With regard to part change, in needs both parties' confirmation and signature.

 Change is valid from receiving the signed Spec.