

SPECIFICATION APPROVAL

Soft ferrite core

Customer Part Number
H31X19X8 DMR40
DMEGC Part Number

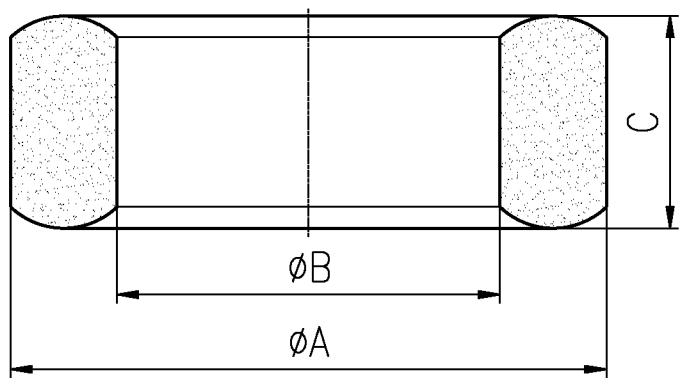
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CUSTOMER:

APPROVED:

DRAWN		CHECK		APPROVED		DATE	2021.09.29
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OUTLINE AND DIMENSIONS



ΦA	ΦB	C
30.8±0.5	19.2±0.5	8±0.4

- 1. Grass green epoxy coating
- 2. Following is the specification after grass green coated

ΦA	ΦB	C
31.8MAX	18.3MIN	8.9MAX

VAC: 2000Vmin, 0.5mA, 10

Hipot mesh to mesh at 2000 VAC min.

Core Factor C1(mm ⁻¹)	Effective Length Le(mm)	Effective Area Ae(mm ²)	Effective Volume Ve(mm ³)
1.8	75.7	42	3179.4

APPEARANCE REQUIREMENT

1 Chip

Area of Chip: $\leq 1.5\text{mm}^2$

Sum of Chipping Area: $\leq 2.5\text{mm}^2$

2 Crack: There shall not be any crack which can be detected by naked eye (eyesight level:1.5).

3 Other: There shall be no stain.

ELECTROMAGNETIC AND MECHANICAL PROPERTY

Measurement item	Specification	Measurement condition
AL Inductance	$1737\text{nH}/N^2 \pm 25\%$	Instrument 1. 0kHz,0.25V Frequency and Voltage : Φ 0.35mm N=10T Coil : 1~3kg Pressure : $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Temperature

DMR40 Material Characteristics

CHARACTERISTICS	CONDITIONS		VALUE
μ_i Initial Permeability	10kHz, B<0.25mT	25°C	2300±25%
B_s (mT) Saturation Magnetic Flux Density	50Hz, 1194A/m	25°C	510
B_r (mT) Residual Magnetic Flux Density		100°C	390
		25°C	95
		100°C	55
		H_c (A/m) Coercive Force	25°C
		100°C	9
P_v (mW/cm³) Power Loss	100kHz, 200mT	25°C	600
		60°C	450
		100°C	410
		120°C	500
T_c (°C) Curie Temperature	10kHz, B<0.25mT		>215
ρ (Ω·m) Resistivity		25°C	6.5
d (g/cm³) Density		25°C	4.8

The above typical data are calculated from the standard toroid core. The performance of specific parts will vary slightly.

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.
- 2 With regard to part change, in needs both parties' confirmation and signature. Change is valid from receiving the signed Spec.