

产品规格承认书

SPECIFICATION APPROVAL

(软磁铁氧体系列产品)

Soft ferrite core

客户产品名称 (材料):

Customer Part Number

东磁产品名称 (材料): EE25 DMR44 磁芯

DMEGC Part Number

内容

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客户名称: 俄罗斯 Lepcos

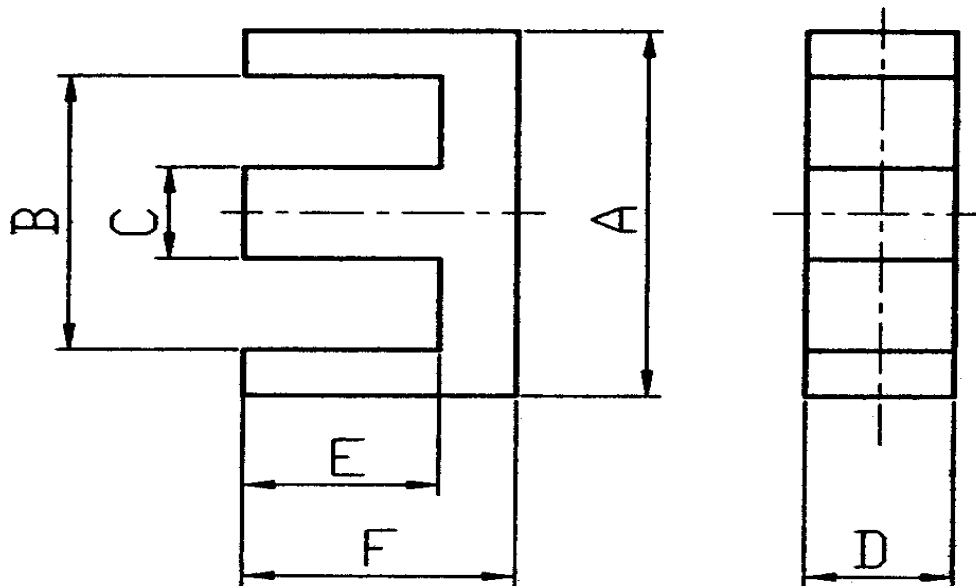
CUSTOMER:

确 认:

APPROVED:

拟 制	杨杭芸	审 核	张小杭	批 准	张小杭	日 期	2022.09.16
DRAWN		CHECK		APPROVED		DATE	

外形和尺寸
OUTLINE AND DIMENSIONS



Core Factor $Cl(\text{mm}^{-1})$	Effective Length $Le(\text{mm})$	Effective Area $Ae(\text{mm}^2)$	Effective Volume $Ve(\text{mm}^3)$
1.11	57.7	51.8	2988.8

A	Bmin	C	D	E	F
25.0 ± 0.4	17.5	7.2 ± 0.25	7.2 ± 0.25	8.9 ± 0.2	12.55 ± 0.25

外观要求

APPEARANCE REQUIREMENT

1.清洁度：外表干净，无水渍、灰尘、氧化铝等杂物。

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

2.掉角: Chips

产品 A 尺寸 Core Size(Dim. A)	功能面:Functional surface			非功能面: Non Functional Surface		
	最大面积(mm ²) Max Area	深度(mm) Depth	最大数量 Max Qty.	最大面积(mm ²) Max Area	深度(mm) Depth	最大数量 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
备注	面积<0.3mm ² 的不计数 Areas < 0.3mm ² are not counted					

3.裂纹：除龟纹和 R 角裂纹外，不允许其他裂纹存在；如果客户有特殊要求，按双方确定的标准判断，但是不允许有影响磁芯电气性能的裂纹存在。

Cracks: No cracks are allowed except moire(tiny surface 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.毛刺: Bur(Flash)

(1) 不应有肉眼(视力 1.5)能够见到的呈锯齿状的毛刺存在；

No visible ragged edges are allowed.

(2) 肉眼(视力 1.5)检查时毛刺不能高于主平面；

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

(3) 长度:≤1/4 发生面边长。

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

备注：

1. 以上标准之制定参照国际电工标准：IEC-60424。

Above standards were made according to IEC-60424.

2. 以上标准未详见之处仍以 IEC 电工标准为参照依据。

Those not included in above standards may refer to IEC-60424.

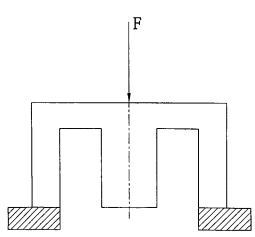
3. 上述文中的 A 指的是产品外径。

Dimension A mentioned above is referred to the outer dimension.

4. 以上标准是 DMEGC 磁芯设计对外观外形的一般标准，不包括客户的特殊要求。对于客户提出的有别于本标准之外的要求，应与客户重新确认并文件化于产品规格承认书中。

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.

电磁和机械特性
ELECTROMAGNETIC AND MECHANICAL PROPERTY

项目 Measurement item	数值 Specification	测定条件 Measurement condition
电感 AL Inductance	$1900\text{nH}/\text{N}^2 \pm 25\%$	仪器: HP4284A 或同等其它仪表 Instrument 频率和电压 1.0kHz ; 0.25V Frequency and Voltage 线圈: $\Phi 0.35\text{mm}$; N=10Ts Coil 气隙厚度: NO GAP Air gap: 加压: 1~3kg Pressure 温度: $25^\circ\text{C} \pm 2^\circ\text{C}$ Temperature
磁芯损耗 P Core Loss	$\leq 120\text{mW/g}$	仪器: SY8232 B-H 分析仪或同等其它仪表 Instrument 线圈: $\Phi 0.35\text{mm}$; N=10Ts Coil 频率: 100kHz Frequency: 磁通密度: 200mT Flux Density 温度: $100^\circ\text{C} \pm 2^\circ\text{C}$ Temperature
机械强度 Mechanical Strength	$\geq 50\text{ N}$ 	仪器: KD-05 Type 或同等其它仪表 Instrument 试验速度: 10mm/min Testing speed



DMR44 材料特性

DMR44 Material Characteristics

特性 CHARACTERISTICS	测试条件 CONDITIONS		典型值 VALUE
初始磁导率 μ_i Initial Permeability	10kHz, B<0.25mT	25°C	2400±25%
饱和磁感应强度 B_s (mT) Saturation Magnetic Flux Density	50Hz, 1194A/m	25°C	510
		100°C	400
剩磁 B_r (mT) Residual Magnetic Flux Density		25°C	110
		100°C	60
矫顽力 H_c (A/m) Coercive Force		25°C	15
		100°C	6
功耗 P_v (mW/cm ³) Power Loss	100kHz, 200mT	25°C	600
		60°C	400
		100°C	300
		120°C	380
居里温度 T_c (°C) Curie Temperature	10kHz, B<0.25mT		> 215
电阻率 ρ ($\Omega \cdot m$) Resistivity		25°C	7.5
密度 d (g/cm ³) Density		25°C	4.8

以上数据是根据标准样环 $\phi 25 \times \phi 15 \times 8$ 获得的典型数据, 有关产品的具体性能会在此基础上有所调整

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

验收规则

INSPECTION RULE

- 1 产品的验收按 **GB/T2828.1-2012** 规定进行,其检查水平: 外观尺寸 II,电磁性能 **S-3, AQL:0.65**。

Cores inspection is conducted per GB/T2828.1-2012 with visual appearance and dimension II ,electromagnetic property S-3,AQL:0.65.

- 2 客户在接收到磁芯产品后十天内须验收完毕,并将验收结果书面通知供货方否则视为已验收合格。

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.

说明

NOTE

- 1 初次的承认书在客户收到 7 天内, 必须签章返回, 逾期视为默认。

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 涉及变更的承认书需经双方签章确认, 变更自签章返回时生效。

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