



# PRODUCT DATA APPROVAL SHEET

Core- CF139EP10

Cosmo Ferrites Ltd. - INDIA

**Appearance & Shape:** To be free from any defect such as flow, burrs, unevenness etc, As per IEC standards.

**Effective Parameters irrespective of material grade (per set)**

- Effective Length ( $L_e$ ): 19.6mm
- Effective Area ( $A_e$ ): 11.3mm<sup>2</sup>
- Effective Area ( $A_{Min}$ ): 8.55mm<sup>2</sup>
- Effective Volume ( $V_e$ ): 221mm<sup>3</sup>

**Approximate weight (without Gap): 2.8g/Set**

## EP10 Un-gapped (OL)

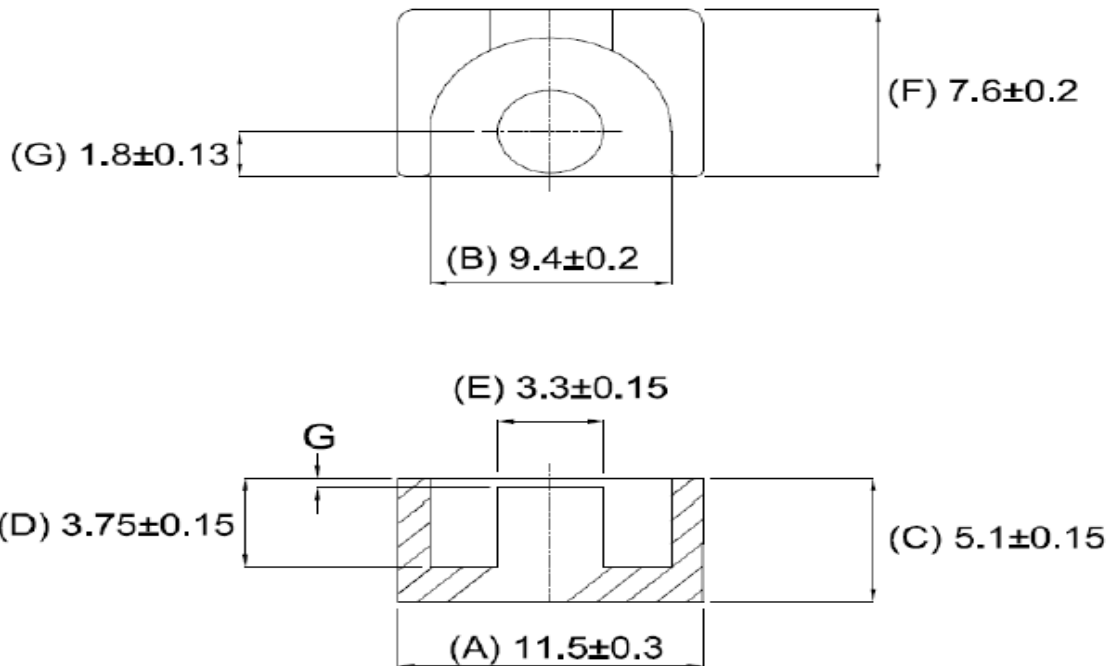
**Test Conditions: 1kHz/1mT/CFR COIL,N=10/25°C**

| Material Grade | Initial Permeability ( $\mu_{i(ac)}$ ) | AL Value (nH)/Set | $\mu_e$ Approx./Set | $P_V$ (W/set)                     | $P_V$ (W/set)                     |
|----------------|----------------------------------------|-------------------|---------------------|-----------------------------------|-----------------------------------|
| CF139          | 2100 $\pm$ 20%                         | 1000 +30%/-20%    | $\approx$ 1370      | $\leq$ 0.023(100mT,100kHz, 100°C) | $\leq$ 0.125(200mT,100kHz ,100°C) |

## EP10 Gapped

**Test Conditions:1kHz/300mV/CFR COIL,N=10/25°C**

| Material Grade | AL Value in nH/Set | S, T)               |                     | D)                  |                     |
|----------------|--------------------|---------------------|---------------------|---------------------|---------------------|
|                |                    | Gap-Approx. (mm)/pc | $\mu_e$ Approx./Set | Gap-Approx. (mm)/pc | $\mu_e$ Approx./Set |
| CF139          | 63 $\pm$ 5%        | $\approx$ 0.22      | $\approx$ 85        | -                   | -                   |
| CF139          | 100 $\pm$ 8%       | $\approx$ 0.13      | $\approx$ 140       | -                   | -                   |



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