

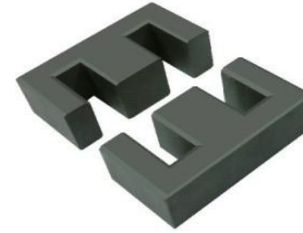


# PRODUCT DATA APPROVAL SHEET

Core-EE4220

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)



Parameter	Value	Unit
Effective Length ( $L_e$ ):	97.0	mm
Effective Area ( $A_e$ ):	240.0	mm <sup>2</sup>
Effective Area ( $A_{min}$ ):	229.0	mm <sup>2</sup>
Effective Volume ( $V_e$ ):	22700	mm <sup>3</sup>
Approximate weight(m):	112.2	g/set

“Clamping force for AL measurement is 40 ±20 N, unless otherwise stated”

## EE4220 Un-gapped (OL)

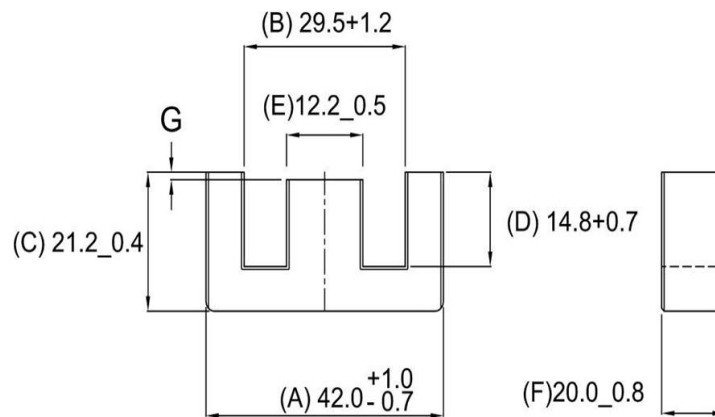
Test Conditions: 1kHz/1mT/CFR COIL, N=100/25°C

Material Grade	Initial Permeability ( $\mu_{iac}$ )	AL Value (nH)	$\mu_e$ Approx. /Set	$P_v$ (W/set) (16kHz,200mT, 100°C)	$P_v$ (W/set) (25kHz,200mT, 100°C)	$P_v$ (W/set) (100kHz,100mT, 100°C)	$P_v$ (W/set) (100kHz,200mT, 100°C)
CF196	2000 ±20%	5400+30%/-20%	≈1750	≤ 3.21	×	×	×
CF139	2100 ±20%	5700+30%/-20%	≈1825	×	≤ 2.62	≤ 2.27	≤ 12.1
CF297	2300 ±20%	6100+30%/-20%	≈1970	×	≤ 2.40	≤ 2.10	≤ 10.2

## EE4220 Gapped

Test Conditions: 1kHz/300mV/CFR COIL, N=100/25°C

Material Grade	Gap Value in mm/Pc	S, T		D	
		AL(nH) Approx. /Set	$\mu_e$ Approx./Set	AL(nH) Approx. /Set	$\mu_e$ Approx./Set
CF139	0.25 ±0.02	≈ 1030	≈ 340	≈ 604	≈ 199
CF139	0.5 ±0.05	≈ 604	≈ 199	≈ 354	≈ 117
CF139	0.6 ±0.05	≈ 525	≈ 173	≈ 307	≈ 101
CF139	1.0 ±0.05	≈ 354	≈ 117	≈ 208	≈ 68
CF139	1.5 ±0.05	≈ 260	≈ 85	≈ 152	≈ 50
CF139	1.8 ±0.05	≈ 156	≈ 52	≈ 79	≈ 26



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