

Lighting

Solar Inverters

Energy Meters

EMI / EMC Filters

Industrial Electronics

Medical Electronics

Switch Mode Power Supply

Battery Chargers/ UPS/ Inverters

Induction Welding Applications/ Heating Applications

04/16



COSMO FERRITES LIMITED, INDIA

お問い合わせ先

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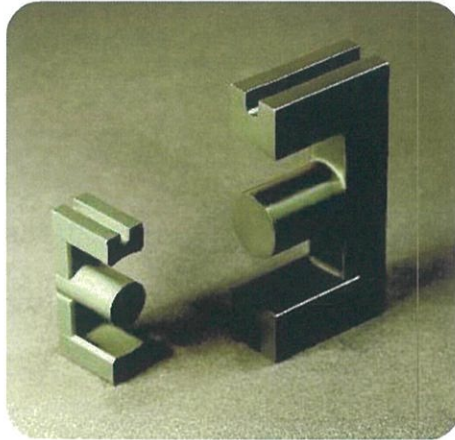
2017年4月版



COSMO FERRITES LIMITED [CFR], an ISO 9001:2008 & ISO 14001:2004 certified company, for its production process & commitment towards clean environment. Founded in 1986 by promoters with over five decades of standing in the Indian Industry, is today the leading manufacturer of Soft Ferrites in India. The Company has its unit operating in the foothills of the Himalayas at a distance of 300 Kms. from Delhi, Capital of India.

State of the art equipment from leading manufacturers of Europe, rigorous quality standards and well equipped in-house R&D set up ensures delivery of high quality ferrites to our customers along with continuous product up gradation. The Company places overriding value on developing close and long lasting relationships with its customers. Wealth of experience, technical capabilities and resources to support the design and development activities enable Cosmo to deliver customized ferrites on time.

COSMO FERRITES has a leading position in the Indian soft ferrites market. It pioneered the exports of Soft Ferrites from India in 1988 and has been the leading exporter of soft ferrites since then. More than 70% of production is exported to all over the world.



APPLICATIONS SERVED BY CFR RANGE



LIGHTING :

- Electronic Ballast for CFL Lamps
- Electronics Chokes for Tubular Lamps

POWER CONDITIONING :

- UPS/Inverter transformers
- Welding transformers
- Switch Mode Power Supplies
- Medical Electronics
- Telecom Power Supplier Introduction

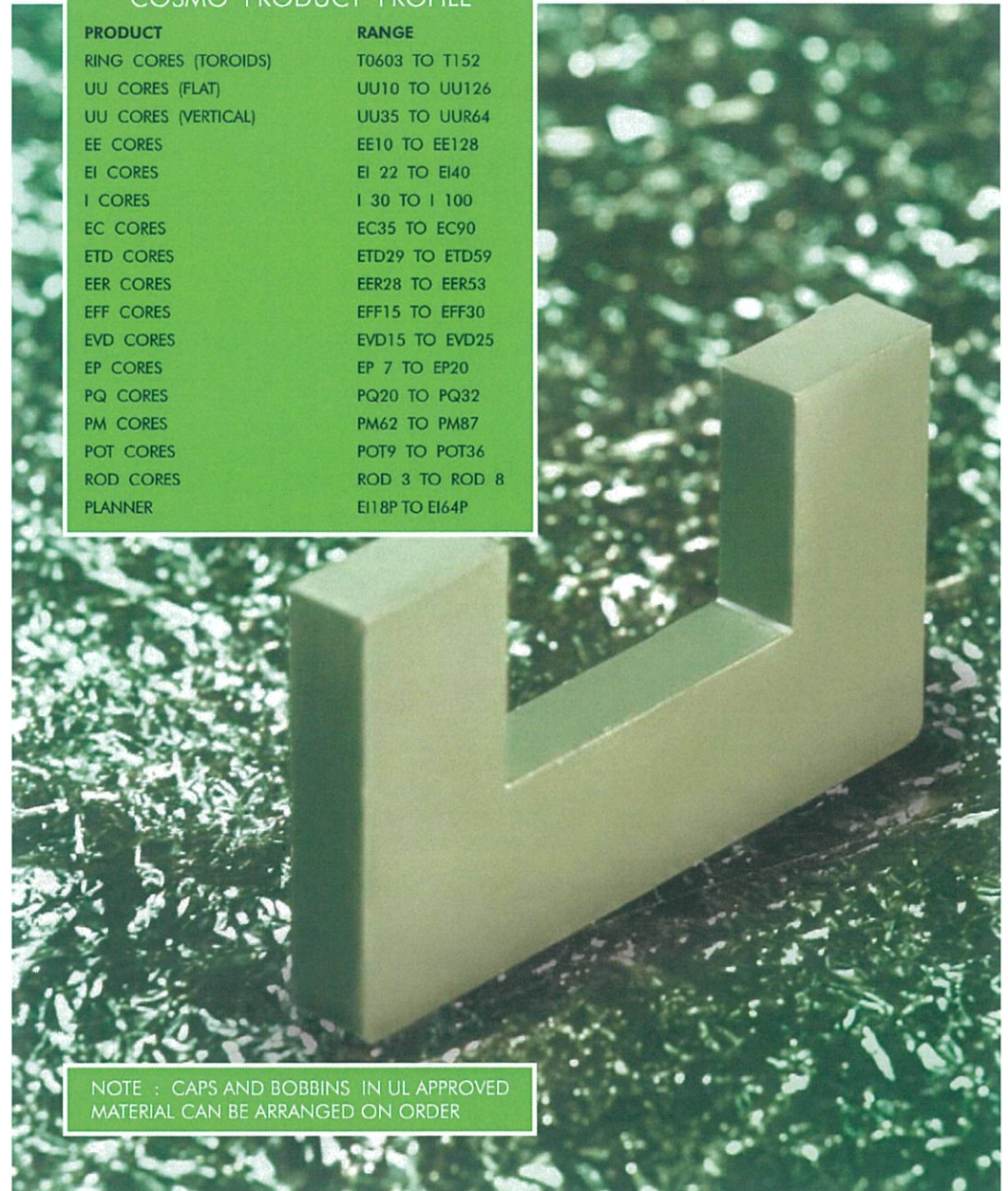
EMI FILTERS / CHOKES / SENSORS

- EMI / EMC Chokes
- Energy Meters

ULTRASONIC APPLICATIONS SOLAR INVERTER

COSMO PRODUCT PROFILE

PRODUCT	RANGE
RING CORES (TOROIDS)	T0603 TO T152
UU CORES (FLAT)	UU10 TO UU126
UU CORES (VERTICAL)	UU35 TO UUR64
EE CORES	EE10 TO EE128
EI CORES	EI 22 TO EI40
I CORES	I 30 TO I 100
EC CORES	EC35 TO EC90
ETD CORES	ETD29 TO ETD59
EER CORES	EER28 TO EER53
EFF CORES	EFF15 TO EFF30
EVD CORES	EVD15 TO EVD25
EP CORES	EP 7 TO EP20
PQ CORES	PQ20 TO PQ32
PM CORES	PM62 TO PM87
POT CORES	POT9 TO POT36
ROD CORES	ROD 3 TO ROD 8
PLANNER	EI18P TO EI64P



NOTE : CAPS AND BOBBINS IN UL APPROVED MATERIAL CAN BE ARRANGED ON ORDER



	SYMBOL	UNIT	TEMP. (°C)	MATERIAL													
				CF196	CF139	CF297*	CF295	CF124	CF140	CF130	CF195A*	CF255*	CF265	CF190	CF197	CF275*	CF199
INITIAL PERMEABILITY ±20%	μ_m	-	25	2000	2100	2300	3000	2500	2500	3000	5000	5500	5000	6000	7000	7000	9000
SATURATION FLUX DENSITY	B_s	mT	25	500	490	518	525	490	390	520	400	440	460	400	400	420	400
	(H=1kA/m)		100	400	390	410	410	390	310	410	260	310	320	280	260	240	260
RESIDUAL FLUX DENSITY	B_r	MT	25	210	-	-	80	200	110	200	-	-	150	150	150	-	150
COERCIVITY	H_c	A/m	25	16	21	21	-	16	24	15	12	12	12	10	12	240	8
POWER LOSS DENSITY	P_c (16KHz) 200 mT	Kw/m ³	25	≤120	-	-	-	≤100	-	-	-	-	-	-	-	-	-
			100	≤110	-	-	-	≤90	-	-	-	-	-	-	-	-	-
	P_c (25KHz) 200 mT	Kw/m ³	25	≤160	-	-	-	≤150	-	-	-	-	-	-	-	-	-
			100	≤140	-	-	-	≤130	-	-	-	-	-	-	-	-	-
	P_c (100KHz) 100 mT	Kw/m ³	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			100	-	≤60	≤50	-	-	-	-	-	-	-	-	-	-	-
	P_c (100KHz) 200 mT	Kw/m ³	25	-	-	-	400	-	-	-	-	-	-	-	-	-	-
			100	-	≤380	≤350	350	-	-	-	-	-	-	-	-	-	-
Relative Loss Factor	$\tan \delta / \mu_m \times 10^{-4}$	(10KHz)	25	-	-	-	-	-	-	≤2.5	≤5.0	≤5.0	≤5.0	≤5.0	≤7.0	≤5.0	≤20
		(100KHz)	25	-	-	-	-	-	≤2.5	-	≤20	≤15.0	≤25.0	< 40	-	≤25	-
Hysteresis Mat. Constant	η_h	X10 ⁶	25	-	-	-	-	-	≤0.4	-	≤03	≤ 0.3	≤1.5	≤1.5	-	≤0.3	≤0.3
Relative Temp. Coefficient	α_r	X10 ⁶	25-55	-	-	-	-	-	0.4-1.5	-	-	0.5-2.0	-	-	-	0.5-2.0	-
Diaccomodation Factor	D_r	X10 ⁶	25	-	-	-	-	-	≤3.0	-	-	-	-	-	-	-	-
Sec. Max Permeability	SPM	°C	-	70-90	90-110	90-110	-	60-80	-	50-70	-	-	-	-	-	-	-
CURIE TEMPERATURE	T_c	°C	-	≥200	≥210	≥210	≥ 210	≥220	≥150	≥200	≥120	≥150	≥160	≥120	≥120	≥130	≥115
RESISTIVITY	ρ	Ωm	25	0.4	8	8	8	0.5	1.0	0.4	0.5	0.5	0.2	0.5	0.2	0.2	0.1
DENSITY	d	Kg/m ³	25	4.8 X 10 ³	4.8 X 10 ³	4.8 X 10 ³	4.8 X 10 ³	4.8 X 10 ³	4.8 X 10 ³	4.8 X 10 ³	4.8 X 10 ³	4.8 X 10 ³	4.8 X 10 ³	4.8 X 10 ³	4.8 X 10 ³	4.8 X 10 ³	4.8 X 10 ³



Note :

1. Material data specified here have been derived from measurements on Toroidal Cores T2512.
2. * New materials
3. As per the Company's policy for continuous improvement in the product portfolio, the right to change materials, core designs etc. At any time without notice is reserved.
4. Initial permeability, relative loss factor and Curie temperature are measured at f=10KHz and B=0.1mT.
5. Disaccomodation factor-Done 10 minutes and 100 minutes after demagnetization.



Type	Fig	Dimensions (mm)					Effective Parameters		AL (nH) $\pm 30\%$ -20%			
		A	B	C	D	F	Le(mm)	Ae(mm ²)	CF196	CF139	CF130	CF195
UU14130	16	141±5.0	50.0 min	78.5±0.5	33.5±1.0	30±1.0	377	1350	7800	8000	-	-
UU12620	16	126.0±4.0	70.0±2.0	91.0±1.0	63.0±2.0	20.0±0.6	480	560	2700	2800	-	-
UU12643	16	126.0±4.0	70.0±2.0	91.0±1.0	63.0±2.0	43±0.8	486.1	972	4600	4800	-	-
UU12020	16	120 ±2.5	60.0 ±1.20	45.0 ±0.50	15.0 ±0.5	20.0 ±0.60	274.2	600	5150	5400	-	-
UU10130	16	10.9±0.9	45 min	76±0.5	48±0.9	30.6±0.6	368	840	5500	5600	-	-
UU10015	16	101.6±2.0	49.0 min.	57.1±0.4	31.7±0.7	25.2±0.7	306	620	4500	4700	6350	-
UU100A	16	101.6±2.00	49.0 min.	57.5±0.40	31.7 ±0.40	12.7 ±0.38	308	321	2500	2600	-	-
UU9352	16	93.0±1.8	36.2±1.2	52.0±0.5	24.0±0.5	30.0±0.6	256	838	-	7400	-	-
UU9330	16	93.0±1.8	36.2±1.2	76.0±0.5	48.0±0.9	30.0±0.6	354	840	4700	5500	-	-
UU9330B	16	93.0 ±1.8	34.6 min	76.0 ±0.50	48.0 ±0.90	30.0 ±0.50	354	840	-	5500	-	-
UU9320	16	93.0 ±1.8	34.6 min	76.0 ±0.50	48.0 ±0.90	20.0 ±0.50	355	560	-	3700	-	-
UU9316	16	93.0 ±1.8	37.0±1.2	76.0±0.8	48.0±0.8	16.0±0.6	354	448	2700	2800	3700	-
UU9115	16	91.28±2.03	18.26±1.6	66.04±1.32	36.52±0.8(Web)	15.87±0.63	253	612	-	5000	-	-
UU8804	16K	88.0 ±1.2	26.0 ±0.6	44.0 ±0.6	31.0±0.4 (Web)	4.0 ±0.2	-	-	-	-	-	-
UU8310	16	83.0±1.0	33.5 min	9.6±0.2	6.0±0.2	58.5±1.0	94.0	245.1	-	5700	-	-
UU8020	16	80.0±2.0	40.0±0.8	49.0±0.5	29.0±0.3	20.0±0.5	258.8	400	3600	3900	-	-
UU7020	16	68.4±1.6	28.4±0.6	57.5±0.5	37.5±0.5	20.0±0.5	269.8	400	3450	3600	5000	7800
UU6616	16	66±0.8	33.0±0.8	60.5±0.3	44.0±0.5	16.5±0.3	293.8	272.3	2250	2300	-	-
UU6204	16K	62.0 ±0.7	16.0 ±0.3	31.0 ±0.5	23.0±0.3 (Web)	4.0 ±0.2	-	-	-	-	-	-
UU6060	16	59.5±0.80	29.2±0.70	55.0 ±0.25	40.0 ±0.60	28.0±0.80	265.8	228.8	2000	2100	-	-
UU6015	16	59.5±0.8	29.2±0.7	55.0±0.25	40.0±0.6	15.25±0.5	265	228	1900	2100	2900	4500
UU4730	16	47.0±0.6	31.0 min	25.0±0.5	10.0±5.0	30±0.6	161.8	570.1	-	6000	-	-
UU4628	16	46.8±0.7	17.5 min.	39.5±0.25	25.5±0.75	28.0±0.8	182.8	397.7	4700	4900	6600	-
UU2537	16	24.5±0.7	9.9±0.3	18.4±0.5	10.85±0.25	7.55±0.25	86.5	53.9	1250	1300	-	2750
UU2332	16	23.0±0.60	8.0±0.30	15.7 ±0.30	8.5 ±0.25	7.55 ±0.25	74	61	1800	1900	-	3850
UU2130A	16	21.0±0.6	6.3±0.3	15.8±0.25	8.75±0.25	7.5±0.3	70.2	54.3	1550	1650	2100	3000
UU2130	16	21.0±0.6	6.3±0.3	15.3±0.5	8.25±0.25	7.5±0.3	68	55	1600	1650	2150	-
UU2036	16	20.0±0.40	8.0 ±0.40	18.0 ±0.30 -0.20	12.0 ±0.20	6.0 ±0.20	82.8	36	950	1000	-	2100
UU1928	16	19.55±0.40	7.15±0.20	-	7.55 ±0.50	4.75 ±0.18	63.98	29.45	1000	1050	-	-
UU1620	16	16.0±0.2	7.0±0.3	10.6±0.2	6.0±0.15	6.0±0.15	52	27	950	1000	1300	1700
UU1522	16	15.2±0.7	5.2±0.3	11.1±0.5	6.1±0.35	6.45±0.25	48	32	1300	1350	1750	2400
UU1116	16	10.5±0.2	5.5±0.2	7.9±0.2	5.3±0.15	5.0±0.15	40	13	650	700	900	1300
UU1016	16	10.1±0.2	4.3±0.2	8.2±0.2	5.2±0.2	2.9±0.2	38.4	8.6	450	475	600	850

Geometry	FIG	Dimensions (mm)									Effective Parameters		AL (nH) $\pm 30\%$ -20%			
		A	B	C	D	E	E1	E2	F	G	Le(mm)	Ae(mm ²)	CF196	CF139	CF124	
UU9330C	16C	93.0±1.8	36.2±1.20	76.0±0.50	48.0±0.90	-	-	-	30.0±0.60	-	-	-	-	-	-	-
UUR6440	16A	64.05±1.95	23.0 min.	40.5±0.2	26.5±0.4	-	20.05±0.2	5.05±0.25	24.0±0.3	9.6±0.45	210	290	3200	3300	3800	
UUR5536	16B	54.9±1.1	20.0±0.4	37.5±0.25	25.5±0.4	23.5±0.45	-	-	36.0±0.7	12.0±0.4	188	418	5200	5500	6400	
UU5972	16H	50.5±1.0	26.5±1.0	35.8±0.2	21.9±0.5	17±0.4	-	-	4.5±0.2	-	189	210	2600	2650	3200	
UU5756	16D	49.8±0.8	27.9±1.0	28.4±0.2	16.0±0.4	15.5±0.4	-	15.9±0.4	-	4.8±0.2	163	171	2350	2450	2900	
UU4718	16E	47.4±0.8	19.5±0.6	24.5±0.2	15.8±0.2	13.2±0.3	-	-	14.7±0.3	18.0±0.4	145	153	-	2450	-	
UU4628A	16C	46.8±0.70	17.0 min	39.5±0.25	25.5±0.75	-	-	-	28.0±0.80	-	182.8	397.7	-	-	-	
UU3549	16F	35.0 ±0.50	17.3 min	24.5±0.30	16.9±0.30	9.6±0.30	-	-	7.6±0.30	-	128.1	73	1300	1400	-	
UU3562	16F	35.25±0.50	13.2 min	30.8±0.30	20.5±0.40	12.7±0.20	-	-	9.30±0.30	-	141.4	113.5	1900	2000	-	
UU3544	16F	34.75±0.50	13.8 min	21.9±0.30	12.5±0.5	11.5±0.30	-	-	9.5±0.30	-	108	101.6	2150	2250	-	
UU2840	16I	27.8±0.4	9±0.4	21.2±0.20	13.3±0.3	11.2±0.30	13.6±0.4	11.2±0.4	7.5±0.30	-	99.8	105	2400	2500	-	
UU2515	16G	25.4±0.40	14.5 min	7.7±0.15	4.7±0.20	14.9±0.25	-	-	7.5 ±0.20	-	66.3	40.45	1300	1400	-	
UU1910	16J	18.5±0.40	7.1 min	11.6±0.20	7.3±0.60	10.0±0.3	-	-	7.0±0.30	-	59.6	40.22	1450	1500	-	

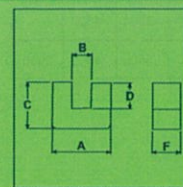


FIG. 16

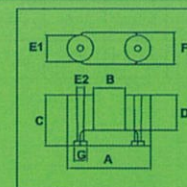


FIG. 16A

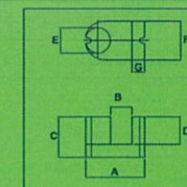


FIG. 16B

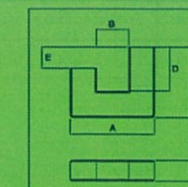


FIG. 16C

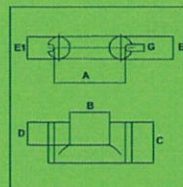


FIG. 16D

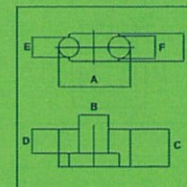


FIG. 16E

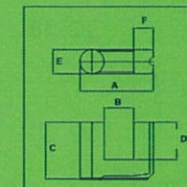


FIG. 16F

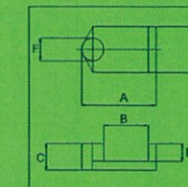


FIG. 16G

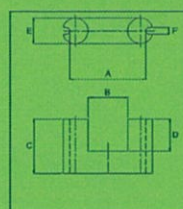


FIG. 16H

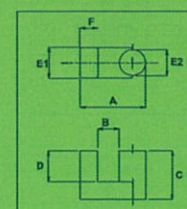


FIG. 16I

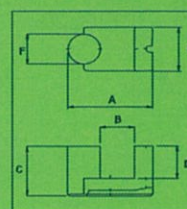


FIG. 16J

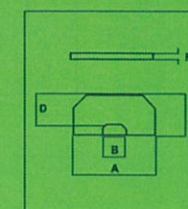


FIG. 16K



EVD, EFC CORES

Type	Fig.	DIMENSIONS (mm)							Effective Parameters		AL (nH)+30% -20%		
		A	B	C	D	E	F	G	Le(mm)	Ae(mm ²)	CF196	CF139	CF130
EVD2513	18	25.0±0.8-0.7	19.2±0.4	12.6±0.25	9.55±0.25	8.8±0.25	12.7-0.5	8.3±0.3	60	73	2400	2500	3700
EVD1509	19	14.9±0.6	11.1±0.3	8.85±0.15	6.2 ±0.2	5.6±0.2	6.8±0.2	4.6±0.2	38.7	27.7	1200	1300	-
EFC2508	20	25.1±0.4	21.0 min.	12.5±0.2	9.0 ±0.2	11.5±0.2	8.0±0.2	3.95±0.15	59.2	46.4	1700	1750	-

EI CORES

Type	Fig.	DIMENSIONS (mm)							Effective Parameters		AL (nH)+30% -20%			
		A	B	C	D	E	F	G	Le(mm)	Ae(mm ²)	CF196	CF139	CF130	CF195
EI 4012	21	40.0±0.5	27.2±1.0	27.2±0.5	20.0±0.5	12.0-0.7	12.0-0.7	7.5±0.3	76.8	148	3800	3950	5100	-
EI3512T	21	35.0±0.8-0.5	25.0±0.8	23.8±0.7	18.0±0.6	10.3-0.6	11.7±0.3	5.5±0.2	67.3	120	3500	3600	-	-
EI3313	21	33.0±0.5	23.2±0.8	23.3±0.3	19.05±0.35	9.7±0.3	12.7±0.3	5.0±0.2	66.9	118.1	3500	3600	4600	-
EI3011	21	30.0±0.7-0.2	20.0±0.7	21.0±0.6	16.0±0.6	11.0-0.7	11.0-0.7	5.5±0.2	58.5	110.4	3700	3800	4800	-
EI2811	21	28.0±0.4	18.6±0.8	17.3±0.3	12.8±0.2	7.5-0.8	11.0-0.6	3.5±0.2	49.5	84.4	3400	3600	4600	6600

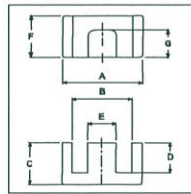


FIG. 18

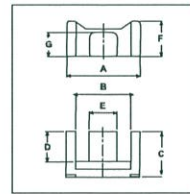


FIG. 19

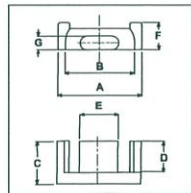


FIG. 20

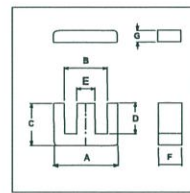


FIG. 21

I-BAR CORES

Type	Fig.	Dimensions (mm)		
		A	F	G
I18640	17	186±3.0	28±0.5	40±0.2
I14030	17	140±6.0	71±3.0	30±1.1
I13010	17	130±1.0	40±0.5	10±0.5
I15025	17	150±2.0	110±2.0	25±1.0
I13040	17	130±1.0	40±0.5	25±0.5
I12620	17	126.0±4.0	28.0±1.00	20.0±0.60
I125100	17	125±4.0	100±0.4	10±0.2
I12604	17	126±4.0	28±1.0	4±0.6
I10610	17	106±1.2	25.4±0.4	10±0.2
I10013A	17	101.6±0.25	25.4±0.38	12.7±0.40
I10025A	17	102±0.25	25.4±0.38	25.4±0.38
I10010	17	101±0.5	25.4±0.4	10±0.5
I10008	17	100±0.4	100±0.4	7.5±0.2
I1003A	17	105±0.2	27.0±0.8	3.14±0.2
I1003A	17	101.6±1.2	25.4±0.5	3.14±0.2
I10075N	17	100.0±0.8	74.6±0.6	5.0±0.2
I10025	17	101.6±2.0	25.4±0.8	25.4±0.8
I9330	17	93.0±1.8	27.5±0.6	30.0±0.6
I9328	17	93.0±1.80	50.0±0.90	28.0±0.50
I9320	17	93.0±1.8	27.5 ±0.5	20.0 ±0.6
I9318	17	93.0±1.80	50.0±0.90	18.0±0.50
I9316	17	93.0±1.8	27.5±0.6	16.0±0.6
I8625	17	86.0 ±2.0	25.4±0.8	25.4 ±0.8
I8330	17	81.0 ±1.20	30.0±1.00	28.0 ±1.1
I8020	17	80.0±0.5	20.0±0.8	20.0±0.4
I7625	17	76.00±0.5	25.4±0.3	25.4±0.3
I7020	17	70.0±0.5	30.0±0.6	20.0±0.6
I6713	17	67.56±0.2	25.4±0.2	12.7±0.2
I6540	17	65.0±1.0	40±0.5	25±0.5
I6204	17	62.0±0.6	31.0 ±0.5	4.0 ±0.4
I6030	17	60.0±1.0	28.0±0.5	30.0±0.5
I6015	17	59.5±0.80	15.25±0.50	15.25±0.50
I6004	17	60.0 ±0.6	23.0±0.5	4.0 ±0.4
I5905	17	59.5±0.3	14.5±0.3	4.8±0.2
I5814	17	58.0±0.2	54.0±0.2	14.0±0.2
I5509	17	55.0±0.2	44.0±0.2	9.0±0.2
I5405	17	54.5±0.3	14.5±0.3	4.8±0.2
I5125	17	51.45±0.2	25.4±0.2	25.4±0.2
I5405	17	54.5±0.3	14.5±0.3	4.8±0.2
I5003	17	50±0.5	34±0.5	2.5±0.4
I4504	17	45±0.3	45±0.3	4-0.1
I4003	17	40±0.3	40±0.3	3±0.3
I3030	17	30.0±0.6	30.0±0.5	27.5±0.5
I3016	17	30.0±0.6	16.0±0.5	27.5±0.5
I2830	17	30.0±0.40	28.0±0.40	18.5±0.20
I2525	17	25.0±0.40	25.0±0.40	25.0±0.40
I2020	17	19.8±0.30	20.0±0.20	19.8±0.30
I2010	17	19.8±0.30	20.0±0.20	9.85±0.30

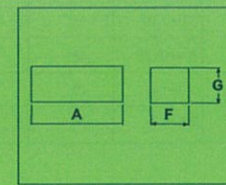


FIG. 17



EFF CORES

Type	Fig	Dimension (mm)							Effective Parameters		AL (nH)+30%/-20%	
		A	B	C	D	E	F	G	Le(mm)	Ae(mm ²)	CF196	CF139
EFF3009	8	30.0±0.8	22.4±0.75	15.0±0.15	11.2±0.3	14.6±0.25	9.1±0.2	4.9±0.15	68	69	2000	2100
EFF2509	8	25.0±0.65	18.7±0.6	12.5±0.15	9.3±0.25	11.4±0.2	9.1±0.2	5.2±0.15	57	58	2000	2050
EFF2309	8	22.8±0.5	16.8±0.4	15.0±0.15	11.0±0.15	10.0±0.25	8.6±0.25	4.5±0.15	65	56.5	1700	1800
EE2007A	8	20.6±0.5	16.0±0.5	10.0±0.15	7.7±0.25	8.9±0.2	6.65±0.15	3.6±0.15	47	31	1200	1350
EFF1505A	8	15.7±0.4	11.35±0.35	7.5±0.15	5.5±0.25	5.3±0.15	4.65±0.15	2.4±0.1	34	15	850	900

EC CORES

Type	Fig	Dimensions(mm)							Effective Parameters		AL (nH)+30%/-20%	
		A	B	C	D	E	F	G	Le(mm)	Ae(mm ²)	CF196	CF139
EC9030	6	90.0±1.8	68.5 min	45.0±0.65	35.5±0.5	30.0±1.0	30.0±1.0	6.0±0.3	221	626		5925
EC7017	4	70.0±1.7	44.5±1.2	34.5±0.3	22.75±0.45	16.4±0.4	16.4±0.4	4.75±0.25	144	279	4200	4400
EC4215	5	42.0±0.8	29.2 min.	22.4±0.3	15.4±0.3	15.5±0.3	15.5±0.4	-	99	203	4350	4500
EC4112	6	40.6±1.0	26.3±1.5	19.35±0.3	13.5±0.8	11.9-0.6	11.9-0.6	3.0±0.5	89	121	2900	3000
EC4013L	5	40.0±0.5	29.6 min.	24.0±0.2	17.0±0.25	13.25±0.25	13.4±0.20		105	147	3100	3300
EC4013	5	40.0±0.5	29.6 min.	22.32±0.2	15.75±0.2	13.25±0.25	13.4±0.20		102	147	3100	3200
EC3510	4	34.5±0.8	22.75±0.55	17.3±0.15	11.9±0.7	9.8-0.6	9.8-0.6	2.75±0.25	77	84	2200	2300

ETD CORES

Type	Fig	Dimension (mm)							Effective Parameters		AL (nH)+30%/-20%	
		A	B	C	D	E	F	Le(mm)	Ae(mm ²)	CF196	CF139	
ETD5922	7	59.8±1.4	44.7±1.1	31.0±0.2	22.45±0.45	21.65±0.45	21.65±0.45	139	368	5700	5950	
ETD5419	7	54.5±1.3	41.2±1.1	27.6±0.2	20.2±0.4	18.9±0.4	18.9±0.4	127	280	4750	4850	
ETD4917	7	48.5±1.3 -0.9	36.1±1.8	24.9-0.4	18.5±0.3	16.7-0.8	16.7-0.8	114	211	3950	4100	
ETD4415	7	43.8±1.2-0.8	32.5±1.6	22.5-0.4	16.3 min	15.2-0.8	15.2-0.8	103	173	3600	3750	
ETD3913M	7	38.9±1.1-0.7	29.3±1.6	20.0±0.2	14.9±0.3	12.8-0.6	12.8-0.6	92.2	125	-	2950	
ETD3913	7	38.9±1.1-0.7	29.3±1.6	20.0-0.4	14.2 min	12.8-0.6	12.8-0.6	92	125	2850	2950	
ETD3913H	7	39.1±0.9	30.1±0.8	22.2±0.2	16.9±0.2	12.5±0.3	12.5±0.3	101.9	125.2	-	2700	
ETD3913L	7	39.0±0.5	29.3 min	21.2 min	15.9 min	12.5±0.3	12.5±0.3	96.4	127.9	-	3000	
ETD3411	7	34.0±1-0.6	25.6±1.4	17.5-0.4	11.8 min	11.1-0.6	11.1-0.6	78	97	2400	2500	
ETD3411A	7	34.0±1-0.6	25.6±1.4	13.0±0.13	7.8±0.13	10.8±0.23	10.8±0.23	63	98	3350	3450	
ETD2910	7	30.6 -1.6	22.0±1.4	16.0-0.4	10.7 +0.6	9.8-0.6	9.8-0.6	71	76	2250	2350	
ETD2910F	7	29.8±0.8	22.2±1.2	16.1±0.2	11.3±0.3	9.4±0.3-0.2	9.4±0.3-0.2	71	76	2250	2350	
ETD2910S	7	29.8±0.8	22.0min	16.5±0.2	11.5±0.2	9.5±0.3	9.5±0.3	72.9	76.7	-	2300	

EER CORES

Type	Fig	Dimension (mm)						Effective Parameters		AL (nH)+30%/-20%	
		A	B	C	D	E	F	Le(mm)	Ae(mm ²)	CF196	CF139
EER5322	7	53.0±0.8	39.4±0.7	23.2±0.3	16.3±0.2	19.9±0.3	21.5±0.3	107	315	5950	6250
EER4518A	7	45.0±0.9	33.8±0.8	17.5±0.2	10.95±0.25	17.6±0.4	17.6±0.4	81	232	6150	6400
EER4217	7	42.15±0.65	30.3±0.5	25.0±0.15	17.5±0.15	17.3±0.25	17.3±0.25	107	240	4500	4600
EER4215	7	42.15±0.8	31.0 min.	21.6±0.2	15.95±0.35	15.1±0.4	15.1±0.4	99	177	3500	3600
EER3913	7	39.0±1.4	28.6±1.0	22.2±0.2	17.0±0.25	12.8±0.2	12.8±0.2	101	131	2750	2850
EER3511	7	35.0±0.5	25.6±1.0	22.5±0.3	16.5±0.3	11.3±0.3	11.3±0.3	97	111	2600	2750
EER3511B	7	35.0±0.5	25.6±1.0	20.7±0.3	14.7±0.3	11.3±0.3	11.3±0.3	89.6	110	2600	2700
EER2811	7	28.5±0.6-0.5	21.2 min.	16.9±0.25	12.5±0.3-0.25	9.9±0.25	11.4±0.25	75	83	2300	2400
EER2811A	7	28.5±0.6-0.5	21.2 min.	14.0±0.2	9.65±0.25	9.9±0.25	11.4±0.25	64	82	2750	2900
EER2811B	7	28.5±0.6-0.5	21.2 min.	21.4±0.3	15.4±0.3	9.9±0.25	11.4±0.25	50	78	3300	3400

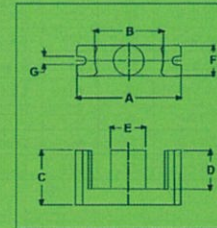


FIG 4

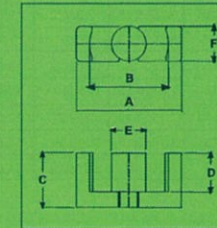


FIG 5

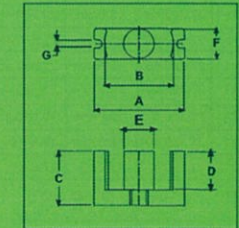


FIG 6

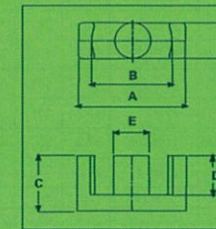


FIG 7

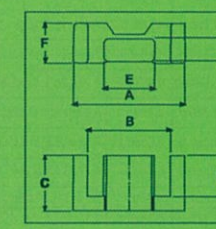


FIG 8



ET & UT CORES

Type	Fig.	DIMENSIONS (mm)						Effective Parameters		AL (nH)+30% -20%	
		A	B	C	D	E	F	Le(mm)	Ae(mm ²)	CF195	CF197
ET3535	22	35.3 ±0.6	26.8 min	35.3 ±0.6	26.8 min	7.4 ±0.25	7.4 ±0.25	86.9	57.1	4100	5750
ET2930	22	29.0 ±0.4	23.0 ±0.4	30.0 ±0.4	24.0 ±0.4	5.0 ±0.25	5.0 ±0.3	74.5	27.9	2350	3300
ET2828	22	28.4 ±0.5	22.2 min	28.4 ±0.5	22.2 min	5.0 ±0.3	5.0 ±0.3	70	27	2400	3400
ET2424	22	24.2 ±0.5	19.0 min	24.2 ±0.5	19.0 min	4.0 ±0.2	4.0 ±0.3	60	18	1900	2650
UT20	23	20.6 ±0.3	16.0 ±0.3	14.1 ±0.25	7.5 ±0.15	4.1 ±0.2	4.6 ±0.2	53	13	1550	2150
UT19	23	19.5 ±0.3	13.1 ±0.25	14.2 ±0.3	7.0 ±0.2	4.0 ±0.2	5.0 ±0.3	51.2	16	1950	2750

PLANER E CORES & PLATE

Type	Fig.	DIMENSIONS (mm)							Effective Parameters		AL (nH)+30% -20%
		A	B	C	D	E	F	G	Le(mm)	Ae(mm ²)	CF139
EE15330P	24	153.0±2.0	129±2.0	31.0±0.5	21±0.5	22±0.5	55±0.8		223.7	1163.1	12000
EE6814P	24	68.0±1.3	55.6±1.1	13.5±0.15	6.5±0.15	12.15±0.15	50.8±1.0		89.9	671.5	14600
EE6450P	24	64.0±1.3	53.6±1.1	10.2±0.15	5.1±0.15	10.2±0.2	50.8±1.1		80	519	13000
EI6450P	24	64.0±1.3	53.6±1.1	10.2±0.15	5.1±0.15	10.2±0.2	50.8±1.1		70	515	14000
EE6440P	24	64.0±1.3	53.6±1.1	20±0.15	15.0±0.25	10.2±0.2	50.8±1.1		119.3	515	9800
EE6430P	25	64.0±1.3	53.6±1.1	15.1±0.15	10.0±0.25	10.2±0.2	50.8±1.1		99.3	521.3	10000
EE6423P	24	64.0±1.3	53.6±1.1	11.6±0.15	6.5±0.25	10.2±0.2	50.8±1.1		85.5	519	11700
EE6420P	24	64.0±1.3	53.6±1.1	10.2±0.15	5.17±0.25	10.15±0.2	50.8±1.1		80	515	12500
EE6415P	24	64.0±1.3	53.6±1.1	15.0±0.15	9.9±0.25	10.2±0.35	51.0±1.2		99.7	503	10300
EE5811P	24	58.4±1.2	50.0min	10.5±0.15	6.5±0.15	8.1±0.2	38.1±0.8		80.6	308.4	7500
EE4328P	24	43.2±0.9	34.7min	9.5±0.15	5.4±0.15	8.1±0.2	27.9±0.6		61.6	226.8	8300
EI4328P	24	43.2±0.9	34.7min	9.5±0.15	5.4±0.15	8.1±0.2	27.9±0.6		20.5	226.8	9450
EE4311P	24	43.2±0.9	34.7min	11.0±0.15	6.9±0.15	8.1±0.2	27.9±0.6		67.1	229	8300
EE3825P	24	38.1±0.76	30.23min	8.26±0.2	4.45±0.2	7.6±0.2	25.4±0.51		52.6	194	7300
EI3825P	24	38.1±0.76	30.23min	8.26±0.2	4.45±0.2	7.6±0.2	25.4±0.51	3.8±0.2	43.6	194	8500
EE3220P	24	31.75±0.64	24.9min	6.35±0.15	3.18±0.2	6.35±0.15	20.32±0.4	3.18±0.2	41.7	129	6200
EI3220P	24	31.75±0.64	24.9min	6.35±0.15	3.18±0.2	6.35±0.15	20.32±0.4	3.18±0.2	35.1	129	6400
EE3211P	24	31.75±0.64	24.9min	11.0±0.15	7.8±0.2	6.35±0.15	20.32±0.4		60.1	130.9	5400
EE3207P	24	31.75±0.64	24.9min	7.0±0.15	3.8±0.2	6.35±0.15	20.32±0.4		41.7	130.9	5700
EE2208P	24	21.8±0.4	16.8±0.4	3.95±0.15	1.75±0.15	5.0±0.15	7.9±0.25		26.1	36.5	2850
EE2206P	24	21.8±0.4	16.8±0.4	5.7±0.10	3.2±0.1	5.0±0.10	15.8±0.3	2.5±0.10	32.5	79	5200
EE1804P	24	18.0±0.35	14.0±0.3	4.0±0.1	2.0±0.1	4.0±0.1	10.0±0.2		24.3	40	2700
EI1804P	24	18.0±0.35	14.0±0.3	4.0±0.1	2.0±0.1	4.0±0.1	10.0±0.2		20.3	40	2850
EI1804P	25	18.0±0.35	10.0±0.2	2.0±0.1							

PLANER EH CORES & PLATE

Type	Fig.	DIMENSIONS (mm)								Effective Parameters		AL (nH)+30% -20%
		A	B	C	D	E1	F	E2	Le(mm)	Ae(mm ²)	CF139	
EEH 2506 I 2506	26 27	25.0 ±0.45 25.0 ±0.45	20.83 ±0.35 20.0 ±0.35	6.29 ±0.15 2.29 ±0.1	4.0 ±0.15	6.32 ±0.15	20.0 ±0.35	14.54 ±0.25	38	86	4450 *5300	
EEH 2504 I2504	26 27	25.0 ±0.45 25.0 ±0.45	20.83 ±0.35 20.0 ±0.35	4.29 ±0.1 2.29 ±0.1	2.0 ±0.1	6.32 ±0.15	20.0 ±0.35	14.54 ±0.25	30	86	5300 *5900	
EEH 2204 I2204	26 27	22.0 ±0.4 22.0 ±0.4	18.33 ±0.35 17.6 ±0.3	4.02 ±0.1 2.02 ±0.1	2.0 ±0.1	5.56 ±0.15	17.6 ±0.3	12.79 ±0.25	27	66	4600 *5200	

A₁ measured in Combination of I Core with E-Core

PM CORES

Type	Fig.	DIMENSIONS (mm)								Effective Parameters		AL (nH)+30% -20%
		A	B1	B2	C	D	E1	E2	F	Le(mm)	Ae(mm ²)	CF139
PM 8770	28	85.5 ±1.5	68.15 ±1.05	41.0 ±1.5	34.8 ±0.25	24.4 ±0.4	31.2 ±0.5	8.65±0.25	35.0 ±1.0	146	910	12500
PM7459	28	74.3-3.0	57.5min.	34.0min	29.5±0.4	20.5±0.4	29.0±1.0	5.4±0.3	32.4max	128	790	10000
PM 6249	28A	61.0 ±1.0	49.5 ±0.75	29.0 min	24.4 ±0.15	16.9 ±0.2	25.1 ±0.4	5.5 ±0.1	28.5 max	109	570	9200
PM5039	28A	50.0-1.7	39.65±0.65	23.4 min	19.4±0.15	13.4±0.2	19.7±0.3	5.5±0.2	23.0 max	84	370	7200

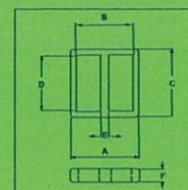


FIG. 22

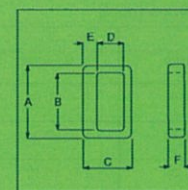


FIG. 23

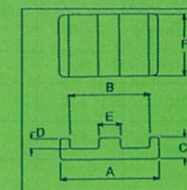


FIG. 24

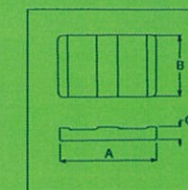


FIG. 25

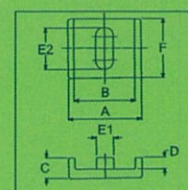


FIG. 26

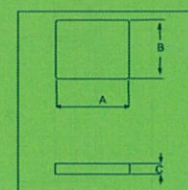


FIG. 27

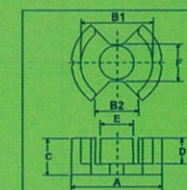


FIG. 28

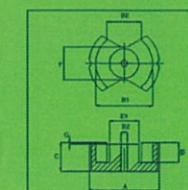


FIG. 28A



ROD CORES

Geometry	FIG	Dimensions (mm)	
		A	B
R1611	29	16.3±0.40	10.5±0.15
R1609	29	16.3±0.40	9.3±0.15
R1025	29	25.0±0.5	10±0.5
R1011	29	11.0±0.5	10±0.5
R0832	29	32.0 ±0.8	7.95±0.25
R0630	29	30.0±0.5	6.0±0.2
R0625	29	25.0±0.25	6.0±0.15
R0620	29	20.0±0.2	5.9±0.15
R0615	29	15.0±0.20	5.9±0.15
R0420	29	20.0±0.5	4.0±0.25
R0415	29	15.0±0.50	4.0±0.25
R0325	29	25.0±0.50	3.41±0.25
R0312	29	12 ±0.25	3.0±0.15

DISC CORES

Geometry	FIG	Dimensions (mm)	
		A	B
R3104	30	31.2±0.50	4.26 ±0.06
R3105	30	31.2±0.50	5.4 ±0.06
R3105A	30	31.2±0.50	5.0 ±0.06
R4008	30	40.0±1.30	7.5 ±0.10

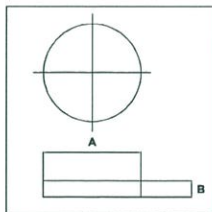


FIG. 30

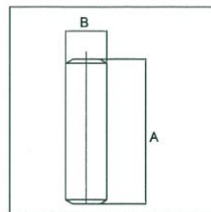
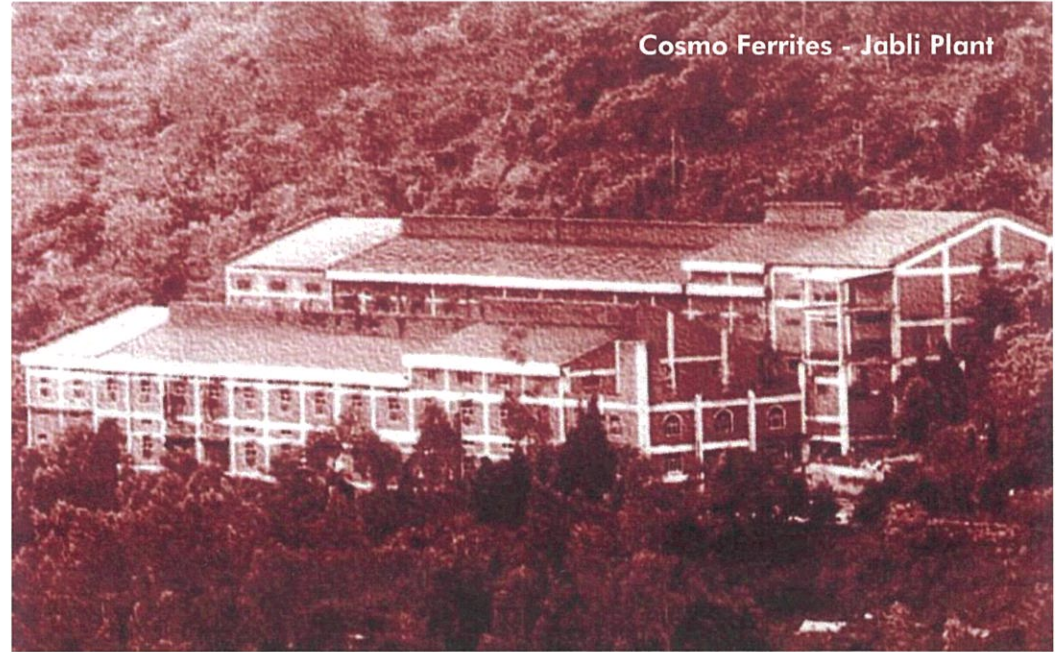


FIG. 29



Cosmo Ferrites - Jabli Plant

Govt. of India Recognized Export House

DSIR Approved In House R&D

An ISO 9001 & 14001 Accredited Company

RoHS Compliance Material

UL Approved Coated Products

Eco-Friendly Packaging material