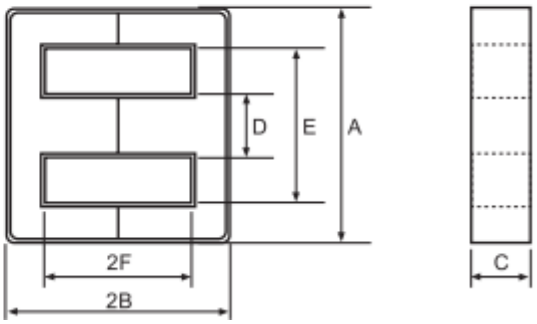
Ordering Code:

P4	EF16	G□
Material 材質	Core Size 品名	Gapped AL Value

Shape:



CORES	DIMENSIONS (mm)						EFFECTIVE PARAMETERS				
	A	B	C	D	E	F	C1(mm⁻¹)	Le(mm)	Ae(mm²)	Ve(mm³)	Wt(g/set)
EF10	10.00 ± 0.30	5.00 ± 0.10	2.75 ± 0.15	2.88 ± 0.15	7.25 ± 0.25	3.63 ± 0.15	3.02	23.23	7.68	178.41	0.90
EF12.6	12.60 $^{+0.50}_{-0.40}$	6.40 ± 0.10	3.60 ± 0.20	3.65 ± 0.15	8.80min	4.65 ± 0.15	2.39	29.60	12.40	367.00	1.88
EF12.6A	12.60 ± 0.40	6.90 ± 0.20	3.55 ± 0.15	3.50 ± 0.30	9.20 ± 0.30	4.90 ± 0.20	2.44	31.05	12.70	394.30	2.06
EF12.6B	12.60 ± 0.50	7.40 ± 0.15	3.55 ± 0.15	3.55 ± 0.15	9.20 ± 0.30	5.35 ± 0.15	2.57	32.86	12.81	420.80	2.14
EF12.6C	12.60 $^{+0.50}_{-0.40}$	6.40 ± 0.10	3.60 ± 0.20	3.65 ± 0.15	8.80min	4.65 ± 0.15	2.39	29.60	12.40	367.04	1.88
EF12.6D	12.65 ± 0.45	6.40 ± 0.10	3.55 ± 0.15	3.55 ± 0.15	8.90min	4.65 ± 0.15	2.41	29.77	12.35	367.66	1.76
EF12.8	12.80 ± 0.30	10.00 ± 0.20	4.90 ± 0.20	3.70 ± 0.20	8.90min	8.30 ± 0.20	2.42	43.97	18.19	799.76	3.94
EF12.9	12.90 ± 0.25	6.50 ± 0.15	3.60 ± 0.15	3.60 ± 0.15	9.60 ± 0.20	4.65 ± 0.15	2.38	30.15	12.63	380.79	1.88
EF13.5	13.50 ± 0.30	6.75 ± 0.15	6.00 $^{+0.15}_{-0.20}$	2.85 ± 0.15	10.50 ± 0.25	5.25 ± 0.20	1.88	33.28	17.67	588.06	2.86
EF16	16.10 ± 0.60	8.05 ± 0.15	4.50 ± 0.20	4.55 ± 0.15	11.30min	5.90 ± 0.20	1.87	37.60	20.10	754.00	3.70
EF16A	16.00 ± 0.30	7.95 ± 0.15	4.35 ± 0.15	4.35 ± 0.15	11.40min	5.80 ± 0.15	1.93	37.11	19.22	713.25	3.62
EF16C	16.00 $^{+0.20}_{-0.50}$	8.05 ± 0.15	4.50 ± 0.20	4.55 ± 0.15	11.80min	5.90 ± 0.20	2.01	37.69	18.74	706.49	3.70
EF16.2	16.20 ± 0.40	9.50 ± 0.15	3.45 ± 0.15	4.60 ± 0.15	11.30min	7.25 ± 0.20	2.71	43.08	15.91	685.30	4.52
EF20	20.00 ± 0.40	9.90 ± 0.20	5.65 ± 0.25	5.70 ± 0.20	14.10min	7.20 ± 0.20	1.34	44.90	33.50	1500.00	7.30
EF20A	20.00 ± 0.40	10.60 ± 0.15	5.70 ± 0.20	5.70 ± 0.20	14.40 ± 0.30	7.60 ± 0.15	1.47	48.22	32.71	1577.54	7.98
EF24	24.00 ± 0.60	12.00 ± 0.35	5.75 ± 0.25	5.80 ± 0.20	16.30 ± 0.40	8.25 ± 0.25	1.38	53.82	38.88	2092.52	11.00
EF25	25.05 ± 0.75	12.55 ± 0.25	7.20 ± 0.30	7.25 ± 0.25	17.50min	8.95 ± 0.25	1.09	57.50	52.84	3038.30	14.68

■ ELECTRICAL CHARACTERISTICS

CORES	AL ± 25% (nH/N²)					AL ± 30% (nH/N²)		
	P4	P5	N42	A05	A07	A10(L)	A121(L)	A151(L)
EF10	670							
EF12.6	830	780	1200	1660	2100	3500	4000	4650
EF12.6A			1150					
EF12.6B	850							
EF12.6C							4000	
EF12.6D	830							
EF12.8			1035					
EF12.9						3900		
EF13.5	1020							
EF16	1100	1000	1700	1950	2540	4200min	4500min	
EF16A				1660				
EF16C	1100							
EF16.2	1000							
EF20	1570	1450		2920	3800	6350min		
EF20A	1600							
EF24	1800							
EF25	2000			3750	4880	8150min		

Material Characteristics (1)

	Symbol	Unit	Measuring Conditions			Low Loss Materials			
			Freq.	Flux den.	Temp.	P4	P41	P42	P48
Initial Permeability	μ_i		≤ 10kHz	0.25mT	25°C	2500 ± 25%	2400 ± 25%	1800 ± 25%	2500 ± 25%
Amplitude Permeability	μ_a		25kHz	200mT	25°C	> 4500	> 4500	> 5000	> 5000
					100°C	> 4500	> 4500	> 5000	> 5000
Power Loss	Pv	KW/m³	25kHz	200mT	25°C	105	125	125	
					100°C	55	50	50	
			100kHz	200mT	25°C	700	650	750	550
					100°C	450	350	350	250
			300kHz	100mT	25°C	660	820	900	500
					100°C	430	500	500	300
			500kHz	50mT	25°C	380	400	450	250
					100°C	330	300	300	200
Saturation Flux Density	Bms	mT	10kHz	H = 1200A/m	25°C	480	495	520	515
					100°C	380	395	420	410
Remanence	Brms	mT	10kHz	H = 1200A/m	25°C	100	170	200	150
					100°C	70	70	70	60
Coercivity	Hc	A/m	10kHz	H = 1200A/m	25°C	10	11	12	13
					100°C	6	6	6	7
Hysteresis Material Constant	ηB	10^{-6}/mT	10kHz	1.5-3.0mT	25°C	< 1.2	< 1	< 1	< 1
Disaccommodation Factor	D_F	10^{-6}	10kHz	< 0.25 mT	25°C	< 2	< 2	< 2	< 2
Curie Temperature	Tc	°C				220	230	240	220
Resistivity	ρ	Ωm				5.50	4.00	8.00	5.00
Density	d	g/cm³				4.80	4.85	4.90	4.90

Materials Cross Reference

Power Ferrite

Ferrite Manufacturers	MATERIALS												
ACME	P4	P41	P42	P45	P46	P47	P48	P49	P56	P5	P51	P52	P61
TDK	PC40	PC44	PC90	PC95		PC95	PC47	PC33/PE22			PC50		
Nicera	NC-2H	2HM4	BM27	3H		3H	2HM5	BM29	38				
FDK	6H10	6H20		6H60		6H42	6H40/6H41	4H45/4H47S			7H20	7H10	
Hitachi Metals	ML24D					ML33D	ML25D	MB19D	ML30D/MB28D				ML12D
JFE	MB1	MB3		MBT2	MBT1		MB4	MB1H				MBF4	MC2
Tomita	2G8			2N2							2H8		
FERROXCUBE	3C30,3C34,3C90	3C94	3C96	3C97		3C95	3C98	3C92		3F3	3F35	3F31	3F45
TDK-EPC	N41,N67,N72,N87	N87		N95		N96	N97	N92	N51	N49	N49		
MAGNETICS	P	R		T	F								
Fair-Rite	78	98				95		97			79		
COSMO	CF124	CF139											
TDG	TP4	TP4A	TP4S	TP4W		TPW33	TP4D	TP4E	TP4C				
DMEGC	DMR40	DMR44	DMR90	DMR95		DMR95	DMR47	DMR24			DMR50B		