

Type : UU Cores

Ordering Code: A10

Material
材質

UU10.5

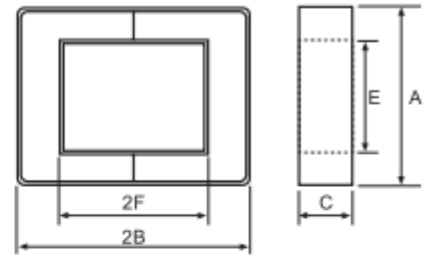
Core Size
品名

L

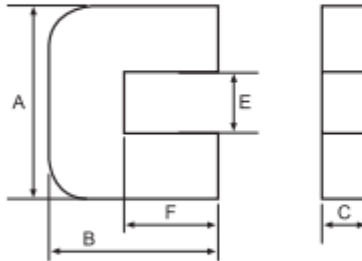
Lapping
鏡面拋光

Shape:

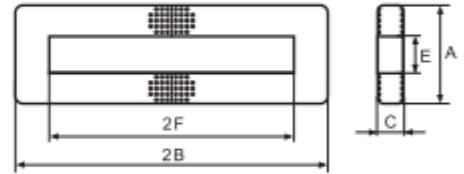
Type:1



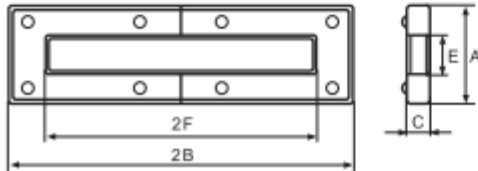
Type:2



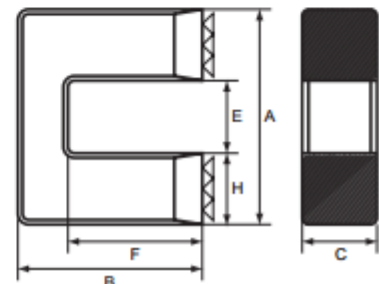
Type:3



Type:4



Type:5



■ DIMENSIONS AND EFFECTIVE PARAMETERS

CORES	DIMENSIONS (mm)						Type
	A	B	C	E	F	H	
UU5.2	5.20 \pm 0.10	7.40 \pm 0.15	2.85 \pm 0.10	2.25 \pm 0.15	5.85 \pm 0.15		1
UU8.5	8.50 \pm 0.20	4.70 \pm 0.15	3.60 \pm 0.15	3.50 \pm 0.15	2.40 \pm 0.15		1
UU9.5	9.50 \pm 0.20	6.80 \pm 0.20	3.90 \pm 0.10	3.50 \pm 0.20	3.50 \pm 0.20		1
UU9.8	9.80 \pm 0.20	7.20 \pm 0.10	2.70 \pm 0.20	4.20min	4.20 \pm 0.20		1
UU9.8B	9.80 \pm 0.30	9.00 \pm 0.20	3.40 \pm 0.20	3.65min	6.00 \pm 0.20		1
UU10B	10.00 \pm 0.30	5.00 \pm 0.20	6.00 \pm 0.20	4.50min	2.40 \pm 0.10		1
UU10.5	10.50 \pm 0.25	8.00 \pm 0.30	5.00 \pm 0.15	5.35min	5.30 \pm 0.30		1
UU11	11.00 \pm 0.60	8.10 \pm 0.20	5.45 \pm 0.20	5.50 \pm 0.20	5.80 \pm 0.10		1
UU11.2A	11.15 \pm 0.25	14.05 \pm 0.10	7.40 \pm 0.20	4.55 \pm 0.25	10.80 \pm 0.15		1
UU12	12.00 \pm 0.30	7.90 \pm 0.10	4.45 \pm 0.15	7.20min	5.65 \pm 0.10		1
UU13.5	13.50 \pm 0.25	10.50 \pm 0.10	3.55 \pm 0.20	4.15 \pm 0.15	7.90 \pm 0.10		2
UU14	14.00 \pm 0.30	30.60 \pm 0.20	3.40 \pm 0.25	5.00 \pm 0.30	23.60 \pm 0.20		4
UU15	15.20 \pm 0.70	11.40 \pm 0.50	6.45 \pm 0.25	5.20min	6.25 \pm 0.35		1
UU15.1	15.10 \pm 0.30	30.65 \pm 0.20	3.20 \pm 0.20	6.10 \pm 0.25	24.65 \pm 0.20		4
UU15.1B	15.10 \pm 0.30	32.00 \pm 0.20	3.20 \pm 0.25	6.10 \pm 0.30	26.00 \pm 0.20		1
UU16	16.00 \pm 0.30	10.00 \pm 0.20	6.00 \pm 0.15	6.70min	6.00 \pm 0.15		1
UU16.5	16.50 \pm 0.30	29.90 \pm 0.20	3.70 \pm 0.15	5.50 \pm 0.25	23.90 \pm 0.20		3
UU16.5A	16.50 \pm 0.30	22.65 \pm 0.20	3.70 \pm 0.20	5.50 \pm 0.25	16.65 \pm 0.20		3
UU16.6	16.60 \pm 0.30	29.30 \pm 0.30	4.00 \pm 0.20	5.60 \pm 0.20	24.30 \pm 0.20		4
UU17.8	17.80 \pm 0.30	33.50 \pm 0.20	3.30 \pm 0.20	5.80 \pm 0.25	29.50 \pm 0.20		4
UU17.8B	17.80 \pm 0.30	36.20 \pm 0.20	3.30 \pm 0.20	5.80 \pm 0.25	30.20 \pm 0.20		1
UU18.2	18.20 \pm 0.40	31.20 \pm 0.20	3.50 \pm 0.20	6.20 \pm 0.25	25.20 \pm 0.20		4
UU18.5	18.50 \pm 0.30	36.90 \pm 0.20	5.70 \pm 0.18	6.50 \pm 0.25	30.90 \pm 0.20		1
UU19	19.05 \pm 0.35	17.00 \pm 0.15	2.00 \pm 0.10	4.35 \pm 0.10	11.60 \pm 0.15		2
UU19.4	19.40 \pm 0.30	11.00 \pm 0.20	4.50 \pm 0.20	6.60 \pm 0.30	8.00 \pm 0.20	6.40 \pm 0.20	5
UU19.6	19.60 \pm 0.30	18.30 \pm 0.20	5.00 \pm 0.15	10.60 \pm 0.30	13.30 \pm 0.20		1
UU19.6A	19.60 \pm 0.40	37.60 \pm 0.20	3.80 \pm 0.20	5.00 \pm 0.25	29.80 \pm 0.20		4
UU19.6B	19.60 \pm 0.30	38.00 \pm 0.20	3.80 \pm 0.20	5.00 \pm 0.25	30.20 \pm 0.20		1
UU22	22.00 \pm 0.30	15.00 \pm 0.25	10.00 \pm 0.30	12.00min	10.00 \pm 0.25		1
UU24	24.00 \pm 0.35	21.60 \pm 0.20	3.60 \pm 0.20	5.00 \pm 0.20	13.60 \pm 0.20		4
UU32.5	32.50 \pm 0.50	27.75 \pm 0.25	12.50 \pm 0.20	13.50 \pm 0.20	18.20 \pm 0.20		1

Material Characteristics (1)

	Symbol	Unit	Measuring Conditions			Low Loss Materials			
			Freq.	Flux den.	Temp.	P4	P41	P42	P48
Initial Permeability	μ_i		$\leq 10\text{kHz}$	0.25mT	25°C	2500 \pm 25%	2400 \pm 25%	1800 \pm 25%	2500 \pm 25%
Amplitude Permeability	μ_a		25kHz	200mT	25°C	> 4500	> 4500	> 5000	> 5000
					100°C	> 4500	> 4500	> 5000	> 5000
Power Loss	Pv	KW/m ³	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	η_B	10 ⁻⁶ /mT	10kHz	1.5-3.0mT	25°C	< 1.2	< 1	< 1	< 1
Disaccommodation Factor	D _r	10 ⁻⁶	10kHz	< 0.25 mT	25°C	< 2	< 2	< 2	< 2
Curie Temperature	T _c	°C				220	230	240	220
Resistivity	ρ	Ωm				5.50	4.00	8.00	5.00
Density	d	g/cm ³				4.80	4.85	4.90	4.90

Materials Cross Reference

Power Ferrite

Ferrite Manufacturers	MATERIALS												
	P4	P41	P42	P45	P46	P47	P48	P49	P56	P5	P51	P52	P61
ACME													
TDK	PC40	PC44	PC90	PC95		PC95	PC47	PC33/PE22			PC50		
Nicera	NC-2H	2HM4	BM27	3H		3H	2HM5	BM29	3B				
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		