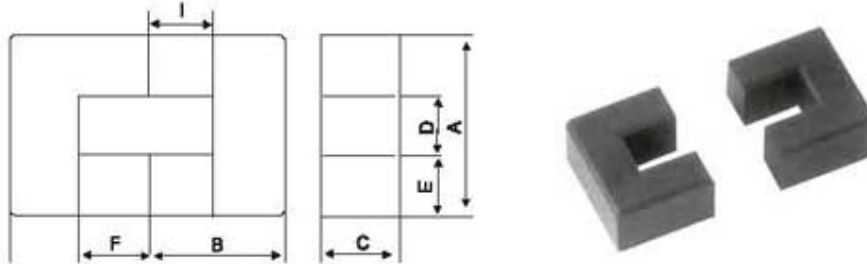


UF & UI Core



Features of UF cores and UI cores

UF-core and UI-core, these Soft ferrite shapes are available in lamination materials (for stacking), powdered material (typically powdered iron), and ferrite materials. In laminated form, features of UF cores and UI cores are similar to that of the "C" core, and can take full advantage of grain orientation while their laminated counterparts only take about 60% to 80%. UF cores and UI cores possess excellent heat dissipation, and there is lots of room available for lead wires, but self-shielding is poor. UF core, UI core and other "U" cores have two core legs. Coils can be placed over either or both legs. Using coils on separate legs is great for high voltage isolation between coils. The mean turn length of two coils on separate legs (sharing the whole winding window) is smaller than 1 coil on one leg (occupying the whole winding window), hence the two coils connected in series has less winding resistance.

Application of UF core and UI core:

The U series core features wide distributing permeability and can be chosen and matched according to filter's frequency. As a power ferrite, it is a good choice using in fields of ignitor and energy-saving products. UF core and UI core may be used as "split-core" current transformers, output transformer core, line transformer core, and Inverter core. UF core is mainly application with line filters in color TV sets; UI core: Line filters, Inverter transformers

Type	Dimensions (mm)						
	A	B	C	Dmin	E	F	I
UF8.5	8.5±0.2	6.4±0.2	3.45±0.15	3.8	2.3	4.15±0.15	
UF8.6	8.6±0.2	6.45±0.2	3.6±0.2	4.0	2.2±0.15	4.2±0.2	
UF9.8	9.8±0.3	7.1±0.2	2.9±0.2	4.1	2.9±0.2	4.3±0.2	
UF9.8A	9.8±0.3	7.1±0.2	2.7±0.2	4.1	2.8	4.25±0.2	
UF10.1	10.1±0.3	7.5±0.25	2.9±0.2	3.9	2.95±0.15	4.5±0.25	
UF10.5	10.5±0.3	7.8±0.4	5.0±0.2	5.2	2.4±0.2	5.3±0.3	
UF10.5A	10.5±0.4	7.8±0.3	5.0±0.2	5.2	2.5	5.25±0.25	
UF12	12.0±0.3	9.2±0.3	3.95±0.15	4.1	3.85	5.05±0.15	
UF15A	15.0±0.3	11.4±0.3	6.4±0.2	5.4	4.7	6.5±0.2	
UF15.7	15.7±0.6	9.7±0.25	6.0±0.3	6.3	4.5±0.2	6.0±0.3	
UF16	16.0 ±0.4	10.0±0.3	6.0±0.2	6.7	4.6±0.2	6.0±0.3	

	-0.2						
UF16A	16.0±0.4	10.0±0.2	6.0±0.2	6.7	4.57	6.0±0.15	
UF19	19.7±0.5	18.25±0.25	5.9±0.2	7.4	6.0	12.2±0.2	
UF20	19.7±0.3	17.7±0.2	6.0±0.2	7.4	6.0±0.2	11.7±0.2	
UI25.4	25.5 +0.4 -0.3	16.25 +0.25 -0	6.25 +0.1 -0.15	12.4	6.45	10.0 +0.3 -0	6.25 +0.1 -0.05
UF30	30.0±0.6	12.1±0.3	3.2±0.2	17.0	6.2±0.3	6.1±0.3	
UF30A	30.0±0.5	12.7±0.15	6.25±0.15	17.3	6.25	6.2 +0.25 -0	
UF33	33.0±0.5	13.8±0.15	7.25 +0.2 -0.15	18.0	7.3	6.2 +0.25 -0	
UI17	16.3±0.3	8.7±0.3	5.0±0.2	10.6	2.7±0.2	6.4 +0.3 -0.2	2.8±0.2
UI25	25.0±0.5	16.0±0.2	6.2±0.2	12.7	6.2±0.3	10.0±0.3	6.0±0.3

Type	Core parameter				weight (g/pr.)	Al(nH/N ²)		
	C1 (mm-1)	Ae (mm ²)	Ie (mm)	Ve (mm ³)		F5(±25%)	F7(±25%)	F10(±25%)
UF8.5	4.05	7.76	31.4	243	1.2	675	830	1215
UF8.6	4.1	7.8	32.2	251.9	1.3		960	1500
UF9.8	4.3	8.1	34.33	275.9	1.4	1300	1500	1800
UF9.8A	4.46	7.60	34.2	262	1.3	755	885	1095
UF10.1	4.15	8.6	35.7	307	1.5		1005	1100
UF10.5	3.25	12.7	39.9	506.1	2.8	1500	1800	2200
UF10.5A	3.2	12.5	40.1	501	2.5	930	1160	1685
UF12	2.65	15.6	41.3	645	3.2	1200	1420	
UF15A	1.71	30.5	52.3	1600	8.0	1840	2380	
UF15.7	2.01	24.8	50	1240	6.5	2600	2600	3250
UF16	1.97	27.2	51.9	1412.6	7.4	2600	3300	4000
UF16A	1.97	25.9	51.0	1320	6.9	1610	2075	2700
UF19	2.29	35.3	81.0	2860	15	1590	2080	
UF20	2.25	36.0	81.0	2916	15	2100	2750	3800
UI25.4	1.65	38.9	64.3	2500	19		2600	
UF30	2.04	38.3	77.9	2985.9	15.3	3080	4300	6150
UF30A	2.06	39.1	80.4	3140	17		2800	
UF33	1.59	53.7	85.7	4600	23		3000	
UI17	2.58	14.0	36.1	505.4	2.6		1500	
UI25	1.68	38.9	65.5	2551	12.8		2500	

Al: 1kHz,0.5mA,100Ts

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