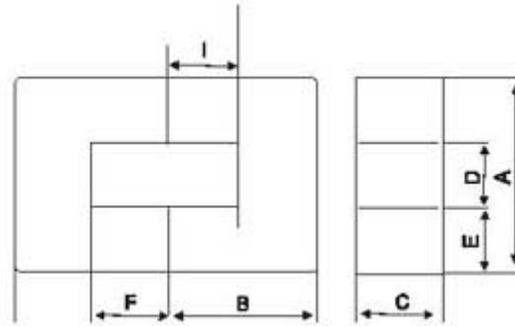




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UF&UI CORES



Features of UF core, UI core and UU core

UF core, UI core and UU core, these Soft ferrite shapes are available in lamination materials (for stacking), powdered material (typically powdered iron), and ferrite materials. In laminated form, their features 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 core, UI core and UU core the heat dissipation is excellent and there is lots of room available for lead wires, but self-shielding is poor. UF core, UI core, UU 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. "U" type cores, such as UF core, UI core and UU core may be used for "split-core" current transformers. And the series of U-type cores including UI8.5, UF9.8, UF10.5, UF15, UF12, UF16, UF19, UF25.4, UF30, UF33, etc.

Application of UF core, UI core and UU core:

U-type cores are mainly used for power, pulse and high-voltage transformers, flyback transformers in B/W and color TV sets.

UF core: mainly used for line filters in color TV sets;

UI core: Line filters, Inverter transformers;

UU core: Line filter transformers, Common mode choke, TV flyback transformers.

Type	Dimensions(mm)						
	A	B	C	D	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	
UF9.8	9.8±0.3	7.1±0.2	2.7±0.2	4.1	2.8	4.25±0.2	
UF10.5	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	
UF15	15.3±0.7	11.7 ⁺⁰ -0.20	6.7 ⁺⁰ -0.50	5.0	5.1±0.2	5.7 +0.30 0	
UF15A	15.0±0.3	11.4±0.3	6.4±0.2	5.4	4.7	6.5±0.2	
UF16	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	
UI25.4	25.5 ^{+0.4} -0.30	16.25 ^{+0.25} -0	6.25 ^{+0.25} -0.15	12.4	6.45	10.0 ^{+0.30} -0	6.25 ^{+0.1} -0.05
UF30	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 ^{+0.20} -0.15	18.0	7.3	6.2 +0.25 0	

Type	Core parameter				weight (g/pr.)	Ai(nH/N²)		Pc(W)	
	C1 (mm)	Ae (mm²)	Ie (mm)	Ve (mm³)		F2BD (±25%)	F2B1 (±25%)	F2BD (max.)	F2B1 (max.)
UF8.5	4.05	7.76	31.4	243	1.2	560	560	0.15	0.12
UF9.8	4.46	7.60	34.2	262	1.3	500	500	0.16	0.14
UF10.5	3.2	12.5	40.1	501	2.5	720	720	0.31	0.26
UF12	2.65	15.6	41.3	645	3.2				
UF15	1.5	34.2	50.2	1719.7	7.8	720	1930		
UFA15	1.71	30.5	52.3	1600	8.0				
UF16	1.97	25.9	51.0	1320	6.9	1100	1100	0.80	0.66
UF19	2.29	35.3	81.0	2860	15				
UI25.4	1.65	38.9	64.3	2500	19				
UF30	2.06	39.1	80.4	3140	17				
UF33	1.59	53.7	85.7	4600	23				

Ai : 1kHz, 0.5mA, 100Ts
 Pc: 100kHz, 200mT, 100