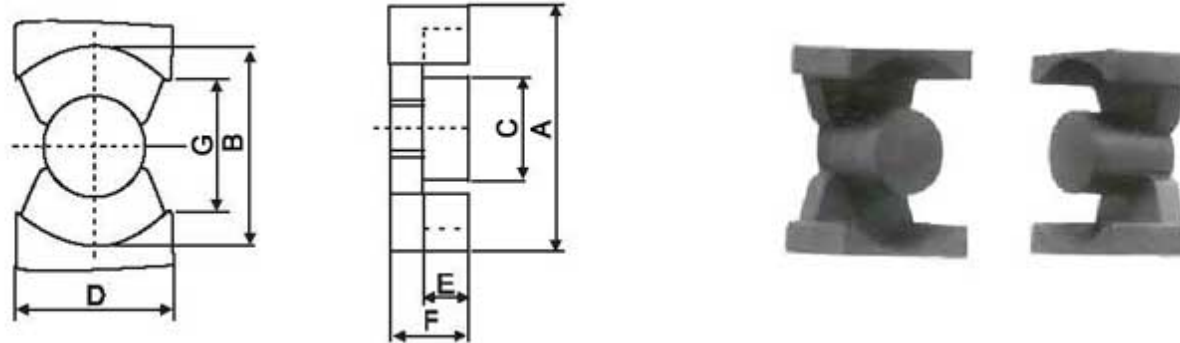




# YUXIANG

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## PQ CORES



### Introduce of PQ cores

PQ Ferrite Core, one kind of Mn-Zn Ferrite Cores, are designed especially for switched mode power supplies. The design provides an optimized ratio of volume to winding area and surface area. As a result, both maximum inductance and winding area are possible with a minimum core size. The PQ cores thus provide maximum power output with a minimum assembled transformer weight and volume, in addition to taking up a minimum amount of area on the printed circuit board. Assembly with printed circuit bobbins and one piece clamps is simplified. This efficient design provides a more uniform cross-sectional area; thus Power MnZn ferrite core tends to operate with fewer hot spots than with other designs.

### Advantages of PQ Cores Assemblies

As one of specialty Core Ferrite Manufacturers, our PQ Cores posses special advantages as follows, wide core selection; unique one-piece clamp; minimal wire losses; heavy wire capability; multiple tap capability; consistency and uniformity; compact packaging on PCB easy; low-cost assembly; 12, 14 pin bobbins; easy mounting, etc. Also we have high-tech manufacture than other Core Ferrite Manufacturers.

## Application of PQ Cores

Type	Dimensions(mm)						
	A	B	C	D	E	F	Gmin
PQ20/16	20.5±0.4	18.0±0.4	8.8±0.2	14.0±0.4	5.0 +0.3 -0	8.0 <sup>+0.2</sup> <sub>-0</sub>	12.0
PQ20/16A	20.5±0.4	18.0±0.4	8.8±0.2	14.0±0.4	5.15±0.15	8.1±0.1	12.0
PQ20/20	20.5±0.4	18.0±0.4	8.8±0.2	14.0±0.4	7.0 <sup>+0.3</sup> <sub>-0</sub>	10.2 <sup>+0.2</sup> <sub>-0</sub>	12.0
PQ20/20A	20.5±0.4	18.0±0.4	8.8±0.2	14.0±0.4	7.15±0.15	10.1±0.1	12.0
PQ26/20A	26.5±0.45	22.5±0.45	12.0±0.2	19.0±0.45	5.75±0.15	9.95 <sup>+0.25</sup> <sub>-0</sub>	15.5
PQ26/20	26.5±0.45	22.5±0.45	12.0±0.2	19.0±0.45	5.75±0.15	10.0 <sup>+0.1</sup> <sub>-0.15</sub>	15.5
PQ26/25	26.5±0.45	22.5±0.45	12.0±0.2	19.0±0.45	8.05±0.15	12.5 <sup>+0</sup> <sub>-0.25</sub>	15.5
PQ26/25A	26.5±0.45	22.5±0.45	12.0±0.2	19.0±0.45	8.05±0.15	12.4 <sup>+0.1</sup> <sub>-0.15</sub>	15.5
PQ32/20	32.0±0.5	27.5±0.5	13.45±0.25	22.0±0.5	5.75±0.15	10.3 <sup>+0.1</sup> <sub>-0.15</sub>	19.0
PQ32/20A	32.0±0.5	27.5±0.5	13.45±0.25	22.0±0.5	5.75±0.15	10.4 <sup>+0</sup> <sub>-0.25</sub>	19.0
PQ32/30A	32.0±0.5	27.5±0.5	13.7+0 -0.5	20.0±0.5	10.5 <sup>+0.3</sup> <sub>-0</sub>	15.3 <sup>+0</sup> <sub>-0.3</sub>	19.0
PQ32/30B	35.1±0.6	17.4 <sup>+0.1</sup> <sub>-0.15</sub>	13.45±0.25	22.0±0.5	10.65±0.15	15.2 <sup>+0.1</sup> <sub>-0.15</sub>	19.0
PQ35/35	35.1±0.6	32.0±0.5	22.0±0.5	26.0±0.5	12.5±0.15	17.5 <sup>+0</sup> <sub>-0.25</sub>	23.5
PQ35/35A	40.5±0.9	32.0±0.5	14.35±0.25	13.45±0.25	27.5±0.5	10.65±0.15	19.0
PQ40/40	40.5±0.9	37.0±0.6	14.9±0.3	28.0±0.6	14.75±0.15	20.0 <sup>+0</sup> <sub>-0.25</sub>	28.0
PQ40/40A	40.5±0.9	37.0±0.6	14.9±0.3	28.0±0.6	14.75±0.15	19.9 <sup>+0.1</sup> <sub>-0.15</sub>	28.0
PQ50/50	50.0±0.9	20.0±0.35	20.0±0.35	32.0±0.6	18.05±0.15	25.0 <sup>+0.1</sup> <sub>-0.15</sub>	31.5

Type	Core parameter				weight (g/pr. )	Al(nH/N <sup>2</sup> )		Pc(W)	
	C1 (mm <sup>-1</sup> )	Ae (mm <sup>2</sup> )	le (mm)	Ve (mm <sup>3</sup> )		F2BD (±25%)	F2B1 (±25%)	F2BD (max.)	F2B1 (max.)
PQ20/16	0.605	62.0	37.4	2310	13	3880	3430		
PQ20/16A	0.605	37.4	62.0	2310	13	3380	3380	0.35	1.16
PQ20/20	0.738	62.0	45.4	2790	15	3310	2920		
PQ20/20A	0.738	45.4	62.0	2790	15	3150	3150	0.42	1.40
PQ26/20	0.391	119	46.3	5490	31	6170	5510		
PQ26/20A	0.391	46.3	119	5490	31	6170	6170	0.81	2.75
PQ26/25	0.472	118	55.5	6530	36	5250	4670		
PQ26/25A	0.472	55.5	118	6530	36	5250	5250	0.99	3.27
PQ32/20	0.326	170	55.5	9420	42	7310	7310		
PQ32/20A	0.326	170	55.5	9420	42	7310	7310	1.22	4.72
PQ32/30A	0.464	161	74.6	12000	55	5140	4900		
PQ32/30B	0.464	74.6	161	12000	55	5140	5140	1.64	6.0
PQ35/35	0.448	196	87.9	17300	73	4860	4860		
PQ35/35A	0.448	87.9	196	17300	73	4860	4860	2.20	8.7
PQ40/40	0.508	201	102	20500	95	4300	4300		
PQ40/40A	0.508	102	201	20500	95	4300	4300	2.74	10.3
PQ50/50	0.346	113	328	37200	195	6720	6720	5.50	11.15*

Al: 1kHz,0.5mA,100Ts

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