

## AMORPHOUS POWDER CORE SERIES PRODUCTS

# PRODUCT CHARACTERISTICS

### Features

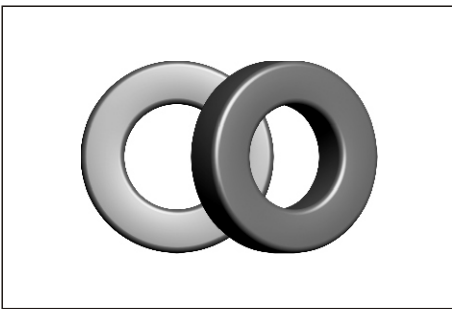
- Reduce Overall Component Cost than Other Solution
- Low Ripple Current
- High Efficiency
- Smaller in Size (Save PCB Size)
- Smallest Temperature Rise among Powdered Core

### Material Information

Properties	APT	MPP	High Flux	Sendust	Ferrite
Saturation Flux Density Bs(G)	15,000	7,500	15,000	10,000	3,000
DC Bias Property @ 100Oe	70%	50%	70%	45%	Gap dep
Core Loss @ 100kHz, 0.1T	600	500	1,300	850	Gap dep

### Specification of APT Series

APT	Size(Bare) (OD × ID × HT)	Size(Coated) (OD × ID × HT)	$A_L$ (nH/N <sup>2</sup> )	$A_c$ (cm <sup>2</sup> )	Le (cm)	SA (cm <sup>2</sup> )	Wa (cm <sup>2</sup> )	WaAc (cm <sup>4</sup> )	Vol (cm <sup>3</sup> )
APT13PXX	12.7 × 7.6 × 4.8	13.5 × 7.0 × 5.5	27	0.11	3.12	5.6	0.38	0.04	0.36
APT17PXX	16.5 × 10.2 × 6.4	17.4 × 9.5 × 7.1	35	0.19	4.11	9.2	0.71	0.14	0.79
APT18PXX	17.3 × 9.7 × 6.4	18.0 × 9.0 × 7.1	43	0.23	4.14	9.9	0.64	0.13	0.96
APT20PXX	20.3 × 12.7 × 6.4	21.1 × 12.1 × 7.1	32	0.23	5.09	12.1	1.14	0.26	1.15
APT23PXX	22.9 × 14.0 × 7.6	23.6 × 13.4 × 8.4	43	0.33	5.67	15.7	1.41	0.47	1.88
APT24PXX	23.6 × 14.4 × 8.9	24.3 × 13.8 × 9.7	51	0.39	5.88	17.9	1.49	0.58	2.28
APT27PXX	26.9 × 14.7 × 11.2	27.7 × 14.1 × 12.0	75	0.65	6.35	24.7	1.56	1.02	4.15
APT33PXX	33.0 × 19.9 × 10.7	33.8 × 19.3 × 11.6	61	0.67	8.15	31.5	2.93	1.97	5.48
APT36PXX	35.8 × 22.4 × 10.5	36.7 × 21.5 × 11.3	56	0.68	8.98	34.5	3.64	2.47	6.09
APT40PXX	39.9 × 23.1 × 14.5	40.7 × 23.3 × 15.4	81	1.07	9.84	48.4	4.27	4.58	10.55
APT46PXX	46.7 × 24.1 × 18.0	47.6 × 23.3 × 18.9	135	1.99	10.74	69.3	4.27	8.50	21.37
APT47PXX	46.7 × 28.7 × 15.2	47.6 × 27.9 × 16.1	86	1.34	11.63	61.7	6.11	8.19	15.58
APT50PXX	50.8 × 31.8 × 13.5	51.7 × 30.9 × 14.4	73	1.25	12.73	64.2	7.50	9.38	15.93
APT57PXX	57.2 × 26.4 × 15.2	58.0 × 25.6 × 16.1	138	2.29	12.51	91.0	5.14	11.77	28.60



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