

## SMD POWER INDUCTORS

### Series PT - D *Shielded*



#### FEATURES

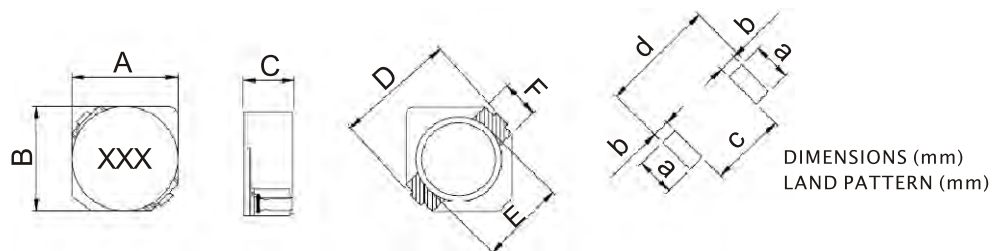
- ◆ Low profile and square
- ◆ Magnetically shield and low DC resistance
- ◆ Suitable for large currents
- ◆ Excellent solderability and high heat resistance
- ◆ Low cost and packed in embossed carrier tape

#### PRODUCT IDENTIFICATION

$\frac{PT}{a}$     $\frac{04}{b}$     $\frac{D}{c}$     $\frac{18}{d}$     $\frac{2}{e}$     $\frac{M}{f}$     $\frac{10U}{g}$

- a : Type of products      - SMD Power Inductors PT series.  
 b : Dimension(mm)        - 03 : 2.9X2.9, 04 : 3.7X3.7  
 c : Materials                - D = D Type  
 d : Thickness(mm)        - 10 = 1.1, 12 = 1.3, 15 = 1.6, 18 = 1.8, 20 = 2.0, 30 = 3.0  
 e : Packing                 - PCS/REEL - 4 = 4000, L=3500  
 f : Tolerance                - K :  $\pm 10\%$ , M :  $\pm 20\%$   
 g : Inductance             - 100N = 0.1uH, 10U = 10.0 uH, 1M2 = 1200uH

#### SHAPES & DIMENSIONS



#### APPLICATIONS

- ◆ LCD Monitor
- ◆ P.D.A
- ◆ Notebook PC
- ◆ Power supply for VTR
- ◆ Digital camera
- ◆ Small size communication equipment

Type	A $\pm 0.3$	B $\pm 0.3$	C(max)	D(ref)	E(ref)	F(ref)	a(ref)	b(ref)	c(ref)	d(ref)
PT03D10	2.9	2.9	1.1	4.2	2.1	1.0	1.3	1.3	1.7	4.3
PT03D12	2.9	2.9	1.3	4.2	2.1	1.0	1.3	1.3	1.7	4.3
PT03D15	2.9	2.9	1.6	4.2	2.1	1.0	1.3	1.3	1.7	4.3
PT03D18	2.9	2.9	1.8	4.2	2.1	1.0	1.3	1.3	1.7	4.3
PT03D20	2.9	2.9	2.0	4.2	2.1	1.0	1.3	1.3	1.7	4.3
PT04D12	3.7	3.7	1.3	5.2	2.8	1.1	1.5	1.4	2.4	5.2
PT04D15	3.7	3.7	1.6	5.2	2.8	1.1	1.5	1.4	2.4	5.2
PT04D18	3.7	3.7	1.8	5.2	2.8	1.1	1.5	1.4	2.4	5.2
PT04D20	3.7	3.7	2.0	5.2	2.8	1.1	1.5	1.4	2.4	5.2
PT04D30	3.7	3.7	3.0	5.2	2.8	1.1	1.5	1.4	2.4	5.2

Unit : mm

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### ELECTRICAL CHARACTERISTICS

TEST FREQUENCY 0.8uH ~ 8.2uH @ 100KHz / 0.25V      10uH ~ 10000uH @ 1KHz / 0.25V

Part Number	Inductance L (μH)	RDC (Ω) max.	Rated DC Current (A) min.	Part Number	Inductance L (μH)	RDC (Ω) max.	Rated DC Current (A) Min.
PT03D104□1U2	1.2	0.083	0.80	PT03D18L□8U2	8.2	0.171	0.45
PT03D104□1U5	1.5	0.096	0.73	PT03D18L□10U	10	0.195	0.42
PT03D104□1U8	1.8	0.118	0.65	PT03D18L□12U	12	0.223	0.39
PT03D104□2U2	2.2	0.134	0.60	PT03D18L□15U	15	0.248	0.35
PT03D104□2U7	2.7	0.163	0.53	PT03D18L□18U	18	0.316	0.32
PT03D104□3U3	3.3	0.181	0.47	PT03D18L□22U	22	0.416	0.28
PT03D104□3U9	3.9	0.199	0.45	PT03D18L□27U	27	0.466	0.26
PT03D104□4U7	4.7	0.288	0.41	PT03D20L□2U2	2.2	0.041	0.85
PT03D104□5U6	5.6	0.325	0.37	PT03D20L□3U3	3.3	0.054	0.75
PT03D104□6U8	6.8	0.330	0.33	PT03D20L□4U7	4.7	0.078	0.63
PT03D104□8U2	8.2	0.475	0.30	PT03D20L□6U8	6.8	0.106	0.52
PT03D104□10U	10	0.538	0.28	PT03D20L□10U	10	0.18	0.43
PT03D124□1U2	1.2	0.056	1.00	PT03D20L□15U	15	0.22	0.35
PT03D124□1U5	1.5	0.068	0.90	PT03D20L□22U	22	0.32	0.3
PT03D124□2U2	2.2	0.098	0.78	PT03D20L□33U	33	0.46	0.24
PT03D124□2U5	2.5	0.103	0.70	PT03D20L□47U	47	0.66	0.2
PT03D124□3U	3	0.116	0.66	PT04D124□2U7	2.7	0.078	0.53
PT03D124□3U3	3.3	0.130	0.63	PT04D124□4U7	4.7	0.123	0.4
PT03D124□3U9	3.9	0.154	0.56	PT04D124□6U8	6.8	0.18	0.34
PT03D124□4U7	4.7	0.177	0.50	PT04D124□8U2	8.2	0.204	0.32
PT03D124□5U6	5.6	0.187	0.50	PT04D124□10U	10	0.240	0.28
PT03D124□6U8	6.8	0.270	0.45	PT04D124□12U	12	0.276	0.25
PT03D124□8U2	8.2	0.300	0.40	PT04D124□15U	15	0.372	0.23
PT03D124□10U	10	0.400	0.43	PT04D124□18U	18	0.468	0.21
PT03D154□1U2	1.2	0.057	2.00	PT04D124□22U	22	0.54	0.19
PT03D154□1U5	1.5	0.073	1.80	PT04D124□27U	27	0.726	0.17
PT03D154□1U8	1.8	0.075	1.65	PT04D124□33U	33	0.822	0.15
PT03D154□2U2	2.2	0.094	1.55	PT04D124□39U	39	0.942	0.14
PT03D154□2U7	2.7	0.117	1.35	PT04D154□1U2	1.2	0.045	2.15
PT03D154□3U	3	0.126	1.3	PT04D154□1U7	1.7	0.063	1.85
PT03D154□3U9	3.9	0.163	1.1	PT04D154□2U2	2.2	0.069	1.60
PT03D154□4U7	4.7	0.222	1	PT04D154□2U7	2.7	0.088	1.45
PT03D154□5U6	5.6	0.24	0.95	PT04D154□3U3	3.3	0.100	1.35
PT03D154□6U8	6.8	0.33	0.85	PT04D154□3U9	3.9	0.135	1.15
PT03D154□8U2	8.2	0.35	0.8	PT04D154□4U7	4.7	0.15	1.10
PT03D154□10U	10	0.4	0.62	PT04D154□8U2	8.2	0.238	0.82
PT03D154□12U	10	0.394	0.62	PT04D154□10U	10	0.262	0.75
PT03D18L□2U2	2.2	0.047	0.86	PT04D154□12U	12	0.350	0.67
PT03D18L□2U7	2.7	0.061	0.82	PT04D154□15U	15	0.488	0.60
PT03D18L□3U3	3.3	0.067	0.72	PT04D154□22U	22	0.575	0.52
PT03D18L□3U9	3.9	0.075	0.7	PT04D18L□1U5	1.5	0.052	1.55
PT03D18L□4U7	4.7	0.101	0.62	PT04D18L□2U2	2.2	0.072	1.20
PT03D18L□5U6	5.6	0.123	0.57	PT04D18L□3U3	3.3	0.085	1.10
PT03D18L□6U8	6.8	0.158	0.5	PT04D18L□4U7	4.7	0.105	0.90

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10uH ~ 10000uH @ 1KHz / 0.25V

Part Number	Inductance L ( $\mu$ H)	RDC ( $\Omega$ ) max.	Rated DC Current (A) min.
PT04D18L□6U8	6.8	0.170	0.73
PT04D18L□10U	10	0.210	0.55
PT04D18L□15U	15	0.295	0.45
PT04D18L□22U	22	0.430	0.40
PT04D18L□33U	33	0.675	0.32
PT04D20L□3U	3	0.069	1.60
PT04D20L□4U7	4.7	0.107	1.35
PT04D20L□6U8	6.8	0.150	1.10
PT04D20L□10U	10	0.205	0.90
PT04D20L□15U	15	0.301	0.75
PT04D20L□22U	22	0.424	0.60
PT04D20L□27U	27	0.640	0.50
PT04D20L□39U	39	0.964	0.40
PT04D30L□3U3	3.3	0.072	2.00
PT04D30L□4U7	4.7	0.088	1.65
PT04D30L□6U8	6.8	0.119	1.24
PT04D30L□10U	10	0.145	1.05
PT04D30L□15U	15	0.213	0.90
PT04D30L□22U	22	0.335	0.76
PT04D30L□33U	33	0.481	0.58
PT04D30L□47U	47	0.599	0.48