

# MULTILAYER FERRITE CHIP BEADS

## Series PV *Shielded*



### FEATURES

- ◆ Magnetic shielded surface mount inductor with high current rating.
- ◆ Low profile and shielded very effective in space-conscious applications.
- ◆ Low resistance to deep power loss.

### APPLICATIONS

- ◆ Excellent for power line DC to DC Conversion applications used in hard disk, notebook computers and the other electronic equipment.

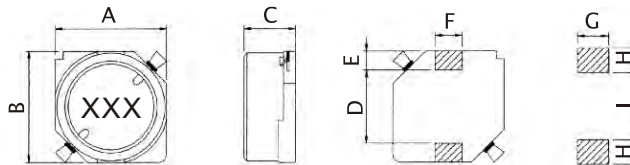
### PRODUCT IDENTIFICATION

$\frac{PV}{a} \quad \frac{06}{b} \quad \frac{X}{c} \quad \frac{28}{d} \quad \frac{2}{e} \quad \frac{M}{f} \quad \frac{10U}{g}$

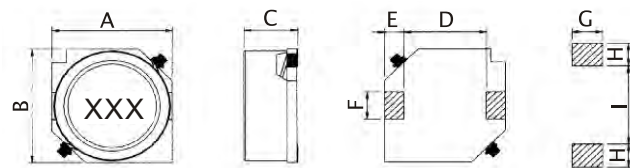
- a : Type of products - SMD Power Inductors PV series.  
 b : Dimension(mm) - 06 : 6.2X6.2, 07 : 7.5X7.5, 10 : 10.1X10.1, 12 : 12.5X12.5  
 c : Materials - X = No Defined  
 d : Thickness(mm) - Dimension C  
 e : Packing - PCS/REEL - 2 = 2000, 1 = 1000, U = 900, Q = 700, I = 500, G = 400  
 f : Tolerance - K :  $\pm 10\%$  M :  $\pm 20\%$   
 g : Inductance - 100N = 0.1uH, 10U = 10.0 uH, 1M2 = 1200uH

### SHAPES & DIMENSIONS

PV06X28' PV06X40' PV06X50' PV07X30' PV07X35' PV07X04



PV10X03' PV10X04' PV10X05' PV12X06' PV12X07



Unit : mm

Type	A	B	C	D	E	F	G	H	I
PV06X28	6.2 Max.	6.2 Max.	2.9 $\pm$ 0.3	3.0 Typ.	1.5	2.0 $\pm$ 0.15	2.2	1.5	4.0
PV06X40	6.2 Max.	6.2 Max.	3.9 $\pm$ 0.3	3.0 Typ.	1.5	2.0 $\pm$ 0.15	2.2	1.5	4.0
PV06X50	6.2 Max.	6.2 Max.	4.9 $\pm$ 0.3	3.0 Typ.	1.5	2.0 $\pm$ 0.15	2.2	1.5	4.0
PV07X30	7.5 Max.	7.5 Max.	3.0 $\pm$ 0.3	4.0 Typ.	1.5	2.0 $\pm$ 0.15	2.8	2.0	4.0
PV07X35	7.5 Max.	7.5 Max.	3.5 $\pm$ 0.5	4.0 Typ.	1.5	2.0 $\pm$ 0.15	2.8	2.0	4.0
PV07X04	7.5 Max.	7.5 Max.	4.5 $\pm$ 0.3	4.0 Typ.	1.5	2.0 $\pm$ 0.15	2.8	2.0	4.0
PV10X03	10.1 Max.	10.1 Max.	3.0 $\pm$ 0.3	6.0 Typ.	2.0 $\pm$ 0.15	3.0 $\pm$ 0.15	3.2	2.5	5.6
PV10X04	10.1 Max.	10.1 Max.	4.5 $\pm$ 0.3	6.0 Typ.	2.0 $\pm$ 0.15	3.0 $\pm$ 0.15	3.2	2.5	5.6
PV12X05	12.5 Max.	12.5 Max.	5.5 $\pm$ 0.3	8.6 Typ.	2.0 $\pm$ 0.15	3.0 $\pm$ 0.15	3.2	2.5	8.6
PV12X06	12.5 Max.	12.5 Max.	6.5 $\pm$ 0.3	8.6 Typ.	2.0 $\pm$ 0.15	3.0 $\pm$ 0.15	3.2	2.5	8.6
PV12X07	12.5 Max.	12.5 Max.	7.5 $\pm$ 0.3	8.6 Typ.	2.0 $\pm$ 0.15	3.0 $\pm$ 0.15	3.2	2.5	8.6

# SMD POWER INDUCTORS

Series **PV** *Shielded*

## ELECTRICAL CHARACTERISTICS

Test Condition : 1V/100KHz

Part Number	Inductance	RDC ( $\Omega$ ) max.	Rated DC Current (A) max.	Part Number	Inductance	RDC ( $\Omega$ ) max.	Rated DC Current (A) max.
	L ( $\mu$ H)				L ( $\mu$ H)		
PV06X282□10U	10	0.15	1.10	PV06X401□-330U	330	1.760	0.18
PV06X282□12U	12	0.20	1.00	PV06X401□-390U	390	2.600	0.17
PV06X282□15U	15	0.23	0.90	PV06X401□-470U	470	3.000	0.16
PV06X282□18U	18	0.27	0.80	PV06X401□-560U	560	3.300	0.15
PV06X282□22U	22	0.34	0.74	PV06X401□-680U	680	3.700	0.13
PV06X282□27U	27	0.38	0.66	PV06X401□-820U	820	4.900	0.12
PV06X282□33U	33	0.45	0.59	PV06X401□-1M	1000	5.700	0.11
PV06X282□39U	39	0.49	0.54	PV06X501□-1U	1	0.023	2.70
PV06X282□47U	47	0.69	0.50	PV06X501□-1U5	1.5	0.026	2.30
PV06X282□56U	56	0.78	0.46	PV06X501□-2U2	2.2	0.028	1.90
PV06X282□68U	68	1.07	0.42	PV06X501□-3U3	3.3	0.035	1.80
PV06X282□82U	82	1.21	0.38	PV06X501□-4U7	4.7	0.040	1.40
PV06X282□100U	100	1.39	0.34	PV06X501□-6U8	6.8	0.045	1.20
PV06X282□120U	120	1.90	0.31	PV06X501□-10U	10	0.060	1.00
PV06X282□150U	150	2.18	0.28	PV06X501□-12U	12	0.065	0.90
PV06X282□180U	180	2.77	0.26	PV06X501□-15U	15	0.070	0.80
PV06X282□220U	220	3.20	0.23	PV06X501□-18U	18	0.095	0.70
PV06X282□270U	270	4.38	0.22	PV06X501□-22U	22	0.110	0.65
PV06X282□330U	330	4.94	0.19	PV06X501□-27U	27	0.120	0.60
PV06X401□1U	1	0.022	2.50	PV06X501□-33U	33	0.165	0.55
PV06X401□1U5	1.5	0.025	2.20	PV06X501□-39U	39	0.180	0.48
PV06X401□2U2	2.2	0.030	1.90	PV06X501□-47U	47	0.200	0.45
PV06X401□3U3	3.3	0.035	1.70	PV06X501□-56U	56	0.255	0.40
PV06X401□4U7	4.7	0.050	1.30	PV06X501□-68U	68	0.285	0.37
PV06X401□6U8	6.8	0.055	1.10	PV06X501□-82U	82	0.390	0.35
PV06X401□10U	10	0.065	1.00	PV06X501□-100U	100	0.420	0.30
PV06X401□12U	12	0.090	0.90	PV06X501□-120U	120	0.470	0.28
PV06X401□15U	15	0.100	0.80	PV06X501□-150U	150	0.630	0.25
PV06X401□18U	18	0.110	0.70	PV06X501□-180U	180	0.720	0.22
PV06X401□22U	22	0.150	0.65	PV06X501□-220U	220	0.820	0.20
PV06X401□27U	27	0.170	0.6	PV06X501□-270U	270	1.100	0.18
PV06X401□33U	33	0.220	0.55	PV06X501□-330U	330	1.200	0.17
PV06X401□39U	39	0.240	0.50	PV06X501□-390U	390	1.700	0.16
PV06X401□47U	47	0.300	0.47	PV06X501□-470U	470	1.900	0.14
PV06X401□56U	56	0.340	0.42	PV06X501□-560U	560	2.150	0.13
PV06X401□68U	68	0.390	0.40	PV06X501□-680U	680	3.300	0.12
PV06X401□82U	82	0.500	0.35	PV06X501□-820U	820	3.650	0.11
PV06X401□100U	100	0.570	0.32	PV06X501□-1M	1000	4.150	0.10
PV06X401□120U	120	0.630	0.30	PV07X301□-3U3	3.3	0.046	1.60
PV06X401□150U	150	0.900	0.27	PV07X301□-3U9	3.9	0.056	1.50
PV06X401□180U	180	0.990	0.25	PV07X301□-4U2	4.2	0.074	1.30
PV06X401□220U	220	1.150	0.22	PV07X301□-4U7	4.7	0.104	1.10
PV06X401□270U	270	1.550	0.20	PV07X301□-5U6	5.6	0.163	0.88

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	L ( $\mu$ H)				L ( $\mu$ H)		
PV07X301□6U3	6.3	0.225	0.75	PV10X031□-18U	18	0.130	1.55
PV07X301□6U8	6.8	0.300	0.65	PV10X031□-22U	22	0.180	1.45
PV07X301□7U	7.0	0.425	0.54	PV10X031□-27U	27	0.200	1.30
PV07X351□3U3	3.3	0.029	1.90	PV10X031□-33U	33	0.210	1.10
PV07X351□4U7	4.7	0.045	1.70	PV10X031□-39U	39	0.270	1.00
PV07X351□6U8	6.8	0.051	1.60	PV10X031□-47U	47	0.300	0.85
PV07X351□10U	10	0.066	1.40	PV10X031□-56U	56	0.400	0.80
PV07X351□15U	15	0.094	1.10	PV10X031□-68U	68	0.440	0.75
PV07X351□22U	22	0.138	0.96	PV10X031□-82U	82	0.490	0.65
PV07X351□33U	33	0.200	0.75	PV10X031□-100U	100	0.670	0.60
PV07X351□47U	47	0.300	0.67	PV10X031□-120U	120	0.740	0.55
PV07X351□68U	68	0.388	0.59	PV10X031□-150U	150	0.790	0.50
PV07X351□100U	100	0.563	0.45	PV10X031□-180U	180	1.200	0.45
PV07X351□150U	150	0.813	0.37	PV10X031□-220U	220	1.350	0.40
PV07X351□220U	220	1.313	0.29	PV10X031□-270U	270	1.800	0.38
PV07X351□330U	330	2.088	0.22	PV10X031□-330U	330	2.000	0.32
PV07X351□470U	470	2.563	0.20	PV10X031□-390U	390	2.100	0.30
PV07X351□680U	680	3.983	0.16	PV10X031□-470U	470	3.500	0.28
PV07X351□1M	1000	5.975	0.13	PV10X031□-560U	560	3.900	0.25
PV07X041□3U3	3.3	0.025	2.50	PV10X031□-680U	680	4.100	0.22
PV07X041□4U7	4.7	0.038	2.00	PV10X031□-820U	820	4.550	0.20
PV07X041□6U8	6.8	0.045	1.70	PV10X031□-1M	1000	5.100	0.18
PV07X041□10U	10	0.049	1.30	PV10X04U□-10U	10	0.0436	3.0
PV07X041□15U	15	0.065	1.10	PV10X04U□-15U	15	0.0566	2.4
PV07X041□22U	22	0.076	0.90	PV10X04U□-22U	22	0.0709	2.1
PV07X041□33U	33	0.120	0.82	PV10X04U□-33U	33	0.0978	1.6
PV07X041□47U	47	0.156	0.75	PV10X04U□-47U	47	0.120	1.4
PV07X041□68U	68	0.219	0.60	PV10X04U□-68U	68	0.168	1.2
PV07X041□100U	100	0.313	0.50	PV10X04U□-100U	100	0.240	1.0
PV07X041□150U	150	0.425	0.40	PV10X04U□-150U	150	0.420	0.79
PV07X041□220U	220	0.650	0.33	PV10X04U□-220U	220	0.564	0.65
PV07X041□330U	330	0.925	0.25	PV10X04U□-330U	330	0.816	0.54
PV07X041□470U	470	1.313	0.22	PV10X04U□-470U	470	1.236	0.47
PV07X041□680U	680	1.850	0.20	PV10X04U□-680U	680	1.96	0.38
PV07X041□1M	1000	2.850	0.14	PV10X04U□-1M	1000	3.36	0.32
PV10X031□1U5	1.5	0.022	4.00	PV10X04U□-1M5	1500	4.08	0.22
PV10X031□2U2	2.2	0.025	3.50	PV12X05Q□-6U3	6.3	0.0196	3.60
PV10X031□3U3	3.3	0.040	3.00	PV12X05Q□-10U	10	0.0258	3.40
PV10X031□4U7	4.7	0.045	2.50	PV12X05Q□-15U	15	0.0310	2.80
PV10X031□6U8	6.8	0.060	2.20	PV12X05Q□-22U	22	0.0456	2.30
PV10X031□10U	10	0.070	2.00	PV12X05Q□-33U	33	0.0564	1.90
PV10X031□12U	12	0.095	1.90	PV12X05Q□-47U	47	0.0741	1.60
PV10X031□15U	15	0.120	1.70	PV12X05Q□-68U	68	0.119	1.30

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### ELECTRICAL CHARACTERISTICS

Test Condition : 1V/100KHz

Part Number	Inductance	RDC ( $\Omega$ ) max.	Rated DC Current (A) max.
	L ( $\mu$ H)		
PV12X05Q□100U	100	0.164	1.10
PV12X05Q□150U	150	0.265	0.88
PV12X05Q□220U	220	0.324	0.72
PV12X05Q□330U	330	0.492	0.59
PV12X05Q□470U	470	0.744	0.49
PV12X05Q□680U	680	1.06	0.43
PV12X05Q□1M	1000	1.52	0.34
PV12X05Q□1M5	1500	2.23	0.29
PV12X06I□2U	2.0	0.0140	10.0
PV12X06I□4U2	4.2	0.0180	7.3
PV12X06I□7U	7.0	0.0212	5.7
PV12X06I□10U	10	0.0242	5.0
PV12X06I□15U	15	0.0284	4.2
PV12X06I□22U	22	0.0379	3.5
PV12X06I□33U	33	0.0487	2.8
PV12X06I□47U	47	0.0693	2.4
PV12X06I□68U	68	0.0944	2.0
PV12X06I□100U	100	0.147	1.6
PV12X06I□150U	150	0.327	1.0
PV12X07G□1U2	1.2	0.0083	13.0
PV12X07G□2U7	2.7	0.0113	10.0
PV12X07G□3U9	3.9	0.0125	9.0
PV12X07G□5U6	5.6	0.0139	7.8
PV12X07G□6U8	6.8	0.0157	7.2
PV12X07G□10U	10	0.0187	5.5
PV12X07G□15U	15	0.0221	4.7
PV12X07G□22U	22	0.0316	4.0
PV12X07G□33U	33	0.0474	3.2
PV12X07G□47U	47	0.0634	2.7
PV12X07G□68U	68	0.0934	2.0
PV12X07G□100U	100	0.150	1.9
PV12X07G□150U	150	0.210	1.5
PV12X07G□220U	220	0.310	1.3