

SMD POWER INDUCTORS

Series PH *Shielded*



FEATURES

- ◆ Magnetic shielded surface mount inductor with high current rating.
- ◆ High inductance high power inductors. .
- ◆ Wire burst resistance due to special construction.s

APPLICATIONS

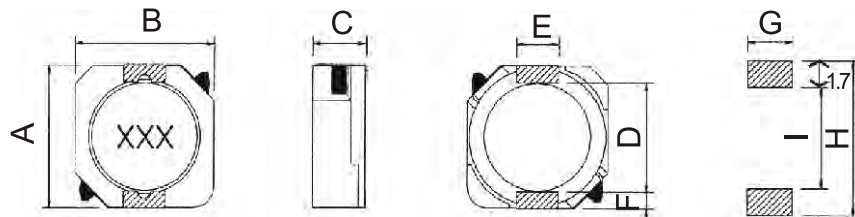
- ◆ DC to DC converter transformers.
- ◆ Digital camera.
- ◆ LCD TFT television set . Monitors

PRODUCT IDENTIFICATION

PH 10 X 03 I M 10U
 a b c d e f g

- a : Type of products - SMD Power Inductors PH series
 b : Dimension(mm) - 10 : 10.4X10.3
 c : Materials - X = No Define
 d : Thickness(mm) - 03 = 3.0 , 04 : 4.0, 05 : 5.0
 e : Packing - PCS/REEL - I = 500
 f : Tolerance - K : ±10% M : ±20%
 g : Inductance - 100N = 0.1uH, 10U = 10.0 uH, 1M2 = 1200uH

SHAPES & DIMENSIONS



Unit : mm

Type	A(max)	B(max)	C(max)	D	E	F	G	H	I
PH10X03	10.4	10.3	3.0	7.7	3.0	1.2	3.6	10.7	7.3
PH10X04	10.4	10.3	4.0	7.7	3.0	1.2	3.6	10.7	7.3
PH10X05	10.4	10.3	5.0	7.7	3.0	1.2	3.6	10.7	7.3

TEST EQUIPMENT AND CONDITIONS

- ◆ Maximum allowable DC current is that which causes a 35% inductance reduction of initial value or coil temperature to rise by 30°C Whichever is smaller. (Referance ambient temperature 20°C
- ◆ Maximum allowable DC current is that which causes a 30% inductance reduction of initial value or coil temperature to rise by40°C Whichever is smaller (Referance ambient temperature 20°C
- ◆ Operating temperature : -25°C +85°C

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ELECTRICAL CHARACTERISTICS

Part Number	Inductance L (μ H)	RDC (m Ω) max.	Isat (A) max.	Irms (A) typ.
PH10X0313 800N	0.8	5.7	11.2	8.30
PH10X0313 1U5	1.5	11	8.00	5.80
PH10X0313 2U2	2.2	16.9	6.70	5.10
PH10X0313 3U3	3.3	21	5.56	4.70
PH10X0313 4U7	4.7	30	4.65	4.00
PH10X0313 6U8	7.8	35	3.84	3.60
PH10X0313 8U2	8.2	50	3.54	3.00
PH10X031M 10U	10	59	3.18	2.80
PH10X031M 15U	15	91	2.60	2.05
PH10X031M 22U	22	143	2.16	2.05
PH10X031M 33U	33	202	1.74	1.35
PH10X031M 47U	47	299	1.43	1.20
PH10X031M 56U	56	325	1.36	1.15
PH10X031M 68U	68	429	1.22	0.95
PH10X031M 82U	82	494	1.14	0.80
PH10X031M 100U	100	683	1.02	0.70
PH10X031M 120U	120	754	0.89	0.65
PH10X031M 150U	150	871	0.84	0.51
PH10X0413 1U5	1.5	8.1	10.00	6.50
PH10X0413 2U5	2.5	10.5	7.50	6.10
PH10X0413 3U8	3.8	13	6.00	5.50
PH10X0413 5U2	5.2	22	5.50	5.40
PH10X0413 7U	7	27	4.80	4.50
PH10X041M 10U	10	35	4.40	3.80
PH10X041M 15U	15	50	3.60	3.10
PH10X041M 22U	22	73	2.90	2.50
PH10X041M 33U	33	93	2.30	2.20
PH10X041M 47U	47	128	2.10	1.90
PH10X041M 68U	68	213	1.50	1.42

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Part Number	Inductance L (μ H)	RDC (m Ω) max.	Isat (A) max.	Irms (A) typ.
PH10X041M 100U	100	304	1.35	1.25
PH10X041M 150U	150	506	1.15	0.85
PH10X041M 220U	220	756	0.92	0.70
PH10X041M 330U	330	1090	0.70	0.52
PH10X0513 800N	0.8	4.3	9.90	13.50
PH10X0513 1U5	1.5	5.8	8.30	10.50
PH10X0513 2U2	2.2	7.2	7.50	9.25
PH10X0513 3U3	3.3	10.4	6.50	7.80
PH10X0513 4U7	4.7	12.3	6.10	6.40
PH10X0513 6U8	6.8	18	5.40	5.40
PH10X0513 8U2	8.2	20	5.00	4.85
PH10X051M 10U	10	26	4.50	4.45
PH10X051M 12U	12	33	3.80	4.00
PH10X051M 15U	15	41	3.40	3.60
PH10X051M 18U	18	46	3.10	3.20
PH10X051M 22U	22	61	2.90	2.95
PH10X051M 27U	27	69	2.60	2.70
PH10X051M 33U	33	84	2.50	2.40
PH10X051M 39U	39	106	2.25	2.30
PH10X051M 47U	47	130	2.00	2.00
PH10X051M 56U	56	149	1.90	1.90
PH10X051M 68U	68	201	1.60	1.65
PH10X051M 82U	82	227	1.45	1.50
PH10X051M 100U	100	253	1.35	1.35
PH10X051M 120U	120	303	1.18	1.28
PH10X051M 150U	150	370	1.10	1.12
PH10X051M 180U	80	419	1.00	1.04
PH10X051M 220U	220	500	0.94	0.94
PH10X051M 270U	270	672	0.80	0.84
PH10X051M 330U	330	812	0.73	0.75
PH10X051M 390U	390	953	0.70	0.70
PH10X051M 470U	470	1289	0.54	0.60
PH10X051M 560U	560	1430	0.52	0.54
PH10X051M 680U	680	1599	0.51	0.52
PH10X051M 820U	820	1768	0.48	0.50
PH10X051M 1M	1000	1989	0.42	0.48