

Molding Power Inductors PI Serie

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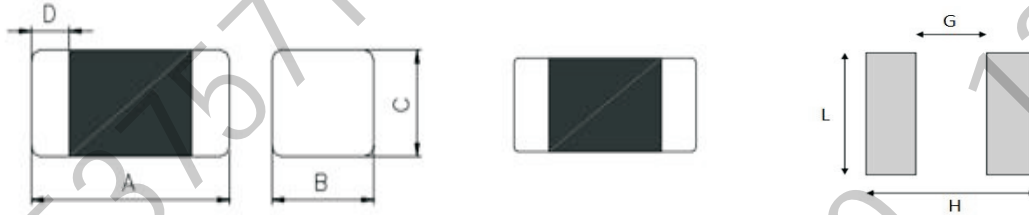
Product Identification:



PI - **201610** **S** - **1R0** **M**
(1) (2) (3) (4) (5)

- (1) Series
- (2) Dimensions(L*H*W)
- (3) Type
- (4) Inductance (1R0=1.0uH, 100=10uH, 101=100uH)
- (5) Tolerance(K(±10%), L(±15%), M(±20%),N(±30%))

DIMENSIONS DRAWING:



Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	-	-	L(mm)	G(mm)	H(mm)
PI-201610	2.0±0.2	1.6±0.2	1.0Max	0.5±0.3	-	-	1.6Typ	0.9Typ	2.0Typ
PI-252010	2.5±0.2	2.0±0.2	1.0Max	0.6±0.3	-	-	2.0Typ	1.2Typ	2.8Typ
PI-252012	2.5±0.2	2.0±0.2	1.2Max	0.6±0.3	-	-	2.0Typ	1.2Typ	2.8Typ

Molding Power Inductors PI - 201610G Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 1MHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I sat (A)Max.	I rms (A)Typ.	I rms (A)Max.
PI-201610G-R47M	0.47	28	33	6.30	5.00	4.40	3.80
PI-201610G-1R0M	1.0	58	65	4.10	3.50	3.10	2.60
PI-201610G-1R5M	1.5	85	94	3.40	2.90	2.50	2.10
PI-201610G-2R2M	2.2	112	130	2.30	2.10	1.90	1.80

Molding Power Inductors PI - 252010G Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 1MHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I sat (A)Max.	I rms (A)Typ.	I rms (A)Max.
PI-252010G-R33M	0.33	13	21	7.40	6.60	5.90	4.80
PI-252010G-R47M	0.47	20	27	6.70	6.00	5.80	4.40
PI-252010G-1R0M	1.0	43	55	4.30	3.80	3.70	3.10
PI-252010G-1R5M	1.5	61	82	3.70	3.20	3.00	2.50
PI-252010G-2R2M	2.2	94	110	3.10	2.70	2.70	2.30
PI-252010G-3R3M	3.3	141	170	2.60	2.20	1.90	1.60
PI-252010G-4R7M	4.7	200	240	2.20	1.90	1.70	1.40

- (1).I sat Current: Temp.rise ΔL/LOA 30%
- (2).I rms Current: Temp.rise 40°C
- (3).Operating Temperature: -40°C up to +125°C

Molding Power Inductors PI - 252010C Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 1MHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I sat (A)Max.	I rms (A)Typ.	I rms (A)Max.
PI-252010C-R47M	0.47	32	42	4.80	3.80	4.00	3.40
PI-252010C-1R0M	1.0	53	72	3.60	2.90	3.20	2.70
PI-252010C-1R5M	1.5	84	98	3.00	2.30	2.50	2.10
PI-252010C-2R2M	2.2	122	142	2.50	2.10	2.00	1.70
PI-252010C-3R3M	3.3	182	218	2.00	1.60	1.60	1.40
PI-252010C-4R7M	4.7	230	280	1.60	1.40	1.20	1.00
PI-252010C-6R8M	6.8	398	500	1.50	1.20	1.10	0.85
PI-252010C-100M	10	560	650.00	1.40	1.10	1.00	0.80

Molding Power Inductors PI - 252012G Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 1MHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I sat (A)Max.	I rms (A)Typ.	I rms (A)Max.
PI-252012G-R33M	0.33	12	19	8.30	7.40	6.30	5.20
PI-252012G-R47M	0.47	17	23	7.40	6.70	5.80	4.90
PI-252012G-1R0M	1.0	38	44	5.30	4.80	3.90	3.30
PI-252012G-1R5M	1.5	58	70	4.20	3.60	3.20	2.70
PI-252012G-2R2M	2.2	80	93	3.70	3.20	2.70	2.30
PI-252012G-3R3M	3.3	112	135	2.90	2.50	2.10	1.80
PI-252012G-4R7M	4.7	158	190	2.40	2.10	1.80	1.50

Molding Power Inductors PI - 252012C Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 1MHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I sat (A)Max.	I rms (A)Typ.	I rms (A)Max.
PI-252012C-R47M	0.47	26	36	4.90	3.90	4.60	3.80
PI-252012C-1R0M	1.0	42	54	4.00	3.20	3.50	3.00
PI-252012C-1R5M	1.5	54	65	3.60	2.80	3.00	2.60
PI-252012C-2R2M	2.2	80	96	2.90	2.40	2.40	2.20
PI-252012C-3R3M	3.3	120	144.0	2.40	2.00	1.80	1.60
PI-252012C-4R7M	4.7	180	220.0	2.00	1.60	1.60	1.40
PI-252012C-6R8M	6.8	300	360.0	1.60	1.30	1.20	1.00
PI-252012C-100M	10	380	450.0	1.40	1.20	1.10	1.00

(1).I sat Current: Temp.rise $\Delta L/L_{0A}$ 30%

(2).I rms Current: Temp.rise 40°C

(3).Operating Temperature: -40°C up to +125°C