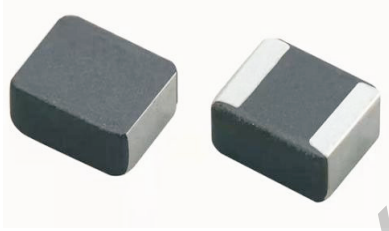


### Molding Power Inductors PW Series

#### Product Identification:



PW - 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)
PW-201610	2.0±0.2	1.6±0.2	1.0Max	0.5±0.3	-	-	1.6Typ	0.9Typ	2.0Typ
PW-252010	2.5±0.2	2.0±0.2	1.0Max	0.6±0.3	-	-	2.0Typ	1.2Typ	2.8Typ
PW-252012	2.5±0.2	2.0±0.2	1.2Max	0.6±0.3	-	-	2.0Typ	1.2Typ	2.8Typ
PW-322512	3.2±0.2	2.5±0.2	1.2Max	0.6±0.3	-	-	2.5Typ	1.7Typ	3.2Typ

### Molding Power Inductors PW - 201610P 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.
PW-201610P-R24M	0.24	17	21	5.60	5.05	5.00	4.50
PW-201610P-R33M	0.33	24	29	5.00	4.50	4.10	3.69
PW-201610P-R47M	0.47	33	40	4.40	4.00	3.50	3.15
PW-201610P-R68M	0.68	41	49	3.70	3.33	3.40	3.06
PW-201610P-1R0M	1.0	60	69	2.90	2.61	2.60	2.26
PW-201610P-1R5M	1.5	114	129	2.50	2.25	2.00	1.81
PW-201610P-2R2M	2.2	135	150	1.90	1.71	1.70	1.50

- (1).I sat Current: Temp.rise ΔL/L0A 30%
- (2).I rms Current: Temp.rise 40°C
- (3).Operating Temperature: -40°C up to +125°C

**Molding Power Inductors PW - 201610S 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.
PW-201610S-R10M	0.1	10	12	9.00	8.10	6.00	5.40
PW-201610S-R33M	0.33	21	26	6.70	6.10	4.70	4.00
PW-201610S-R47M	0.47	23	30	6.10	5.30	4.50	4.05
PW-201610S-1R0M	1.0	48	60	3.90	3.30	3.20	3.00
PW-201610S-1R5M	1.5	86	99	3.40	3.10	2.40	2.20
PW-201610S-2R2M	2.2	117	140	2.60	2.45	2.20	2.00

**Molding Power Inductors PW - 252010P 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.
PW-252010P-R22M	0.22	9	12.5	7.90	7.20	5.90	5.30
PW-252010P-R33M	0.33	21	26.0	6.60	6.00	4.40	4.00
PW-252010P-R47M	0.47	27	32.0	5.00	4.50	3.90	3.51
PW-252010P-R68M	0.68	37	44.0	4.30	3.87	3.40	3.06
PW-252010P-1R0M	1.0	45	54.0	3.50	3.15	3.00	2.70
PW-252010P-1R5M	1.5	76	91.0	2.60	2.34	2.50	2.25
PW-252010P-2R2M	2.2	99	119.0	2.40	2.16	2.30	2.07
PW-252010P-4R7M	4.7	220	262.0	1.80	1.62	1.36	1.22

**Molding Power Inductors PW - 252010S 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.
PW-252010S-R33M	0.33	17	22.00	7.80	7.00	5.60	4.80
PW-252010S-R47M	0.47	23	29.00	6.60	6.00	5.20	4.40
PW-252010S-1R0M	1.0	41	52.00	4.40	4.00	3.40	3.10
PW-252010S-2R2M	2.2	88	110.0	3.30	3.00	2.40	2.10
PW-252010S-4R7M	4.7	200	240.0	2.20	1.90	1.60	1.40

(1).I sat Current: Temp.rise ΔL/L0A 30%

(2).I rms Current: Temp.rise 40°C

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

### Molding Power Inductors PW - 252012P Series

ELECTRICAL CHARACTERISTIC:

Part Number	L(uH) $\pm 20\%$ 1MHz/1.0V	DCR (m $\Omega$ ) Typ.	DCR (m $\Omega$ ) Max.	I sat (A)Typ.	I sat (A)Max.	I rms (A)Typ.	I rms (A)Max.
PW-252012P-R47M	0.47	21	25.00	5.30	4.95	4.60	4.18
PW-252012P-R68M	0.68	29	35.00	5.00	4.63	3.70	3.36
PW-252012P-1R0M	1.0	41	49.00	4.40	4.04	3.50	3.18
PW-252012P-1R5M	1.5	64	77.00	3.20	2.91	2.50	2.27
PW-252012P-2R2M	2.2	85	98.0	3.00	2.73	2.27	2.06
PW-252012P-3R3M	3.3	125	150.0	2.10	1.80	2.00	1.80
PW-252012P-4R7M	4.7	196	235.0	1.90	1.58	1.61	1.40

### Molding Power Inductors PW - 252012S Series

ELECTRICAL CHARACTERISTIC:

Part Number	L(uH) $\pm 20\%$ 1MHz/1.0V	DCR (m $\Omega$ ) Typ.	DCR (m $\Omega$ ) Max.	I sat (A)Typ.	I sat (A)Max.	I rms (A)Typ.	I rms (A)Max.
PW-252012S-R47M	0.47	16	22	6.80	6.20	5.80	4.90
PW-252012S-1R0M	1.0	36	44	4.80	4.30	3.90	3.30
PW-252012S-2R2M	2.2	74	89.0	3.50	3.20	2.50	2.20

### Molding Power Inductors PW - 322512A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L(uH) $\pm 20\%$ 1MHz/1.0V	DCR (m $\Omega$ ) Typ.	DCR (m $\Omega$ ) Max.	I sat (A)Typ.	I sat (A)Max.	I rms (A)Typ.	I rms (A)Max.
PW-322512A-R47M	0.47	18	22	7.70	7.00	5.80	5.20
PW-322512A-1R0M	1.0	25	32	5.40	4.70	4.30	3.90
PW-322512A-2R2M	2.2	60	72.0	4.00	3.50	3.00	2.70
PW-322512A-6R8M	6.8	190	210.0	2.40	2.10	1.50	1.20

(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