

SMD POWER INDUCTORS

Series PT - L Ferrite Powder Shielded



FEATURE

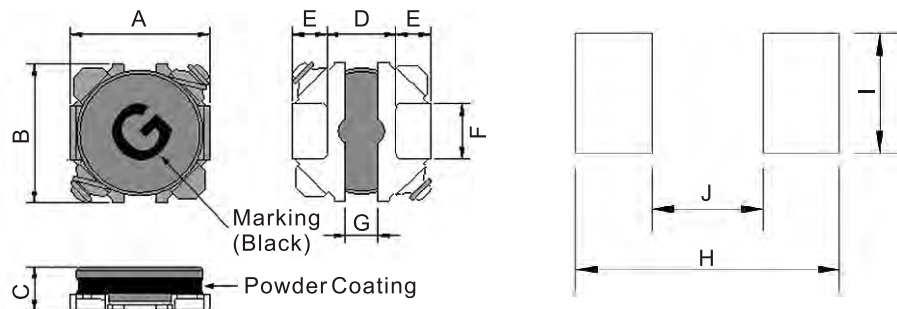
- ◆ Low DC Resistance, High Current capacity and high impedance characteristics
- ◆ Excellent solder heat resistnace. Both flow and reflow soldering methods can employed
- ◆ Magnetic epoxy resin with shielded

PRODUCT IDENTIFICATION

$\frac{DI}{a}$ $\frac{30}{b}$ $\frac{L}{c}$ $\frac{10}{d}$ $\frac{2}{e}$ $\frac{M}{f}$ $\frac{10U}{g}$

- a : Type of products - SMD Power Inductors DI series.
- b : Dimension(mm) - 26 = 2.8X2.6 30 : 3.0X2.9 40=4.0X3.9 50 = 5.0X4.9 70 = 7.2X7.2
- c : Materials - L=PT with Ferrite Powder Shielded
- d : Thickness(mm) - 10 = 1.0 12 = 1.2 15 = 1.5 18 = 1.8 20 = 2.0 30 = 3.0
- e : Packing - PCS/REEL - J = 1,500 2 = 2,000
- f : Tolerance - 3 : ±30% M : ±20%
- g : Inductance - 100N = 0.1uH, 10U = 10.0 uH, 1M2 = 1200uH

SHAPES & DIMENSIONS



Type	A	B	C(max)	D(ref)	E(ref)	F(ref)	G(ref)	H	I	J
PT26L10	2.8±0.2	2.6±0.2	1.0	1.3	0.5	0.8	0.5	3.4	1	1
PT30L10	3.0±0.2	2.9±0.2	1.0	1.5	0.76	1.2	0.7	3.4	1.6	1.4
PT30L12	3.0±0.2	2.9±0.2	1.2	1.5	0.76	1.2	0.7	3.4	1.6	1.4
PT30L15	3.0±0.2	2.9±0.2	1.5	1.5	0.76	1.2	0.7	3.4	1.6	1.4
PT30L20	3.0±0.2	2.9±0.2	2.0	1.5	0.76	1.2	0.7	3.4	1.6	1.4
PT40L10	4.0±0.2	3.9±0.2	1.0	2.1	0.96	1.6	1.1	4.4	2	2
PT40L12	4.0±0.2	3.9±0.2	1.2	2.1	0.96	1.6	1.1	4.4	2	2
PT40L15	4.0±0.2	3.9±0.2	1.5	2.1	0.96	1.6	1.1	4.4	2	2
PT40L18	4.0±0.2	3.9±0.2	1.8	2.1	0.96	1.6	1.1	4.4	2	2
PT50L10	5.0±0.2	4.9±0.2	1.0	2.7	1.16	2.0	1.5	5.4	2.4	2.5
PT50L12	5.0±0.2	4.9±0.2	1.2	2.7	1.16	2.0	1.5	5.4	2.4	2.5
PT50L15	5.0±0.2	4.9±0.2	1.5	2.7	1.16	2.0	1.5	5.4	2.4	2.5
PT50L20	5.0±0.2	4.9±0.2	2.0	2.7	1.16	2.0	1.5	5.4	2.4	2.5
PT70L30	7.2±0.2	7.2±0.2	3.0	3.6	1.80	2.6	2.0	8	3	3.5

Unit : mm

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Series PT - L Ferrite powder shielded ELECTRICAL CHARACTERISTICS

Part Number	Inductance (μ H) / 100KHz 0.1V	Tolerance (%)	RDC (Ω) \pm 20%	IDC (A) max.		I _{rms} (A) max.	Marking
				L ∇ 10%	L ∇ 30%		
PT26L105M 1U	1	20	0.092	1.2	1.5	1.55	A
PT26L105M 2U2	2.2	20	0.179	1	1.3	1.28	D
PT26L105M 3U3	3.3	20	0.219	0.85	1.1	0.98	F
PT26L105M 4U7	4.7	20	0.282	0.7	0.95	0.86	H
PT26L105M 5U6	5.6	20	0.3	0.6	0.75	0.8	I
PT26L105M 6U8	6.8	20	0.453	0.61	0.75	0.73	J
PT26L105M 10U	10	20	0.667	0.45	0.58	0.52	L
PT26L105M 15U	15	20	0.857	0.4	0.5	0.43	N
PT26L105M 22U	22	20	1.511	0.33	0.38	0.32	O
PT26L105M 27U	27	20	1.604	0.28	0.33	0.29	Y
PT26L105M 33U	33	20	1.798	0.23	0.3	0.28	P
PT26L105M 47U	47	20	3.205	0.2	0.28	0.26	Q
PT26L105M 82U	82	20	5	0.16	0.21	0.17	820
PT30L1033 1U	1	30	0.064	--	1.5	1.7	A
PT30L1033 1U2	1.2	30	0.072	--	1.3	1.6	B
PT30L1033 1U5	1.5	30	0.086	--	1.1	1.45	C
PT30L1033 2U2	2.2	30	0.12	--	0.95	1.23	E
PT30L1033 3U3	3.3	30	0.17	--	0.8	1	G
PT30L1033 3U9	3.9	30	0.2	--	0.7	0.9	H
PT30L103M 4U7	4.7	20	0.25	--	0.65	0.85	I
PT30L103M 5U6	5.6	20	0.3	--	0.6	0.78	J
PT30L103M 6U8	6.8	20	0.35	--	0.55	0.7	K
PT30L103M 8U2	8.2	20	0.4	--	0.5	0.65	L
PT30L103M 10U	10	20	0.49	--	0.45	0.6	M
PT30L103M 15U	15	20	0.68	--	0.38	0.5	O
PT30L103M 22U	22	20	1	--	0.33	0.4	Q

1. When ordering, please specify tolerance and packaging codes. Ex: PT30L Series

Tolerance : M = \pm 20% , 3 = \pm 30%

Packaging : Clear tape and reel { standard }.

2. L, Idc : Agilent/HP 4284A , 100KHz with 100mV.

3. Rdc : DIGITAL MILLIOHM METER Chroma 16502, or equivalent.

4. Idc : Based on Inductance decrease 30%

5. I_{rms} : Based on Temperature increase 40°C

6. Operating temperature range from -40°C to 105°C(Including self-temperature rise)

7. Storage Temp. : -40°C to +85°C

8. Recommended wire wound inductors should be used within 6 months from the time of delivery.

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Part Number	Inductance (μ H) / 100KHz 0.1V	Tolerance (%)	RDC (Ω) \pm 20%	Idc (A) max.	Irms (A) max.	Marking
PT30L1233 470N	0.47	30	0.032	2.8	2.05	6
PT30L1233 560N	0.56	30	0.038	2.5	1.95	7
PT30L1233 680N	0.68	30	0.044	2.1	1.85	8
PT30L1233 1U	1	30	0.053	1.9	1.7	A
PT30L1233 1U2	1.2	30	0.053	1.9	1.7	B
PT30L1233 1U5	1.5	30	0.067	1.7	1.55	C
PT30L1233 2U2	2.2	30	0.093	1.3	1.4	E
PT30L1233 2U7	2.7	30	0.12	1.2	1.25	F
PT30L1233 3U3	3.3	30	0.13	1.1	1.2	G
PT30L123M 4U7	4.7	20	0.19	0.95	0.95	I
PT30L123M 5U6	5.6	20	0.22	0.83	0.85	J
PT30L123M 6U8	6.8	20	0.26	0.8	0.8	K
PT30L123M 10U	10	20	0.36	0.65	0.67	M
PT30L123M 15U	15	20	0.53	0.55	0.56	O
PT30L123M 22U	22	20	0.79	0.45	0.41	Q
PT30L123M 33U	33	20	1.14	0.36	0.31	S
PT30L123M 47U	47	20	1.53	0.3	0.22	U
PT30L1533 680N	0.68	30	0.038	3.40	2.00	8
PT30L1533 1U	1	30	0.044	3.00	1.85	A
PT30L1533 1U2	1.2	30	0.055	2.50	1.70	B
PT30L1533 1U5	1.5	30	0.071	2.20	1.55	C
PT30L1533 1U8	1.8	30	0.079	2.00	1.45	D
PT30L1533 2U2	2.2	30	0.099	1.90	1.35	E
PT30L1533 2U7	2.7	30	0.11	1.70	1.30	F
PT30L1533 3U3	3.3	30	0.12	1.60	1.25	G
PT30L153M 4U7	4.7	20	0.18	1.30	1.05	I
PT30L153M 5U6	5.6	20	0.2	1.20	1.00	J
PT30L153M 6U8	6.8	20	0.22	1.10	0.95	K
PT30L153M 8U2	8.2	20	0.31	1.00	0.80	L
PT30L153M 10U	10	20	0.33	0.95	0.75	M
PT30L153M 15U	15	20	0.54	0.70	0.60	O
PT30L153M 22U	22	20	0.78	0.65	0.42	Q
PT30L153M 33U	33	20	1.38	0.50	0.31	S
PT30L153M 47U	47	20	1.68	0.40	0.26	U
PT30L2033 1U	1	30	0.051	3.60	1.75	A
PT30L2033 1U5	1.5	30	0.072	2.90	1.55	C
PT30L2033 2U2	2.2	30	0.089	2.50	1.40	E
PT30L2033 3U3	3.3	30	0.13	1.90	1.20	G
PT30L203M 4U7	4.7	20	0.17	1.60	1.05	I
PT30L203M 6U8	6.8	20	0.26	1.30	0.88	K
PT30L203M 8U2	8.2	20	0.32	1.20	0.79	L
PT30L203M 10U	10	20	0.36	1.10	0.73	M
PT30L203M 15U	15	20	0.57	0.90	0.57	O
PT30L203M 22U	22	20	0.89	0.74	0.40	Q
PT30L203M 33U	33	20	1.11	0.62	0.36	S
PT30L203M 47U	47	20	1.71	0.50	0.25	U
PT30L203M 68U	68	20	2.24	0.28	0.20	W

1. When ordering, please specify tolerance and packaging codes. Ex: PT30L Series

Tolerance : M = \pm 20% , 3 = \pm 30%

Packaging : Clear tape and reel { standard }.

2.L, Idc : Agilent/HP 4284A , 100KHz with 100mV.

3.Rdc : DIGITAL MILLIOHM METER Chroma 16502, or equivalent.

4.Idc : Based on Inductance decrease 30%

5.Irms : Based on Temperature increase 40°C

6. Operating temperature range from -40°C to 105°C (Including self-temperature rise)

7. Storage Temp. : -40°C to +85°C

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Part Number	Inductance (μ H) / 100KHz 0.1V	Tolerance (%)	RDC (Ω) \pm 20%	Idc (A) max.	Irms (A) max.	Marking
PT40L1033 1U	1	30	0.056	1.4	1.7	A
PT40L1033 1U5	1.5	30	0.072	1.2	1.6	C
PT40L1033 2U2	2.2	30	0.084	1.1	1.55	E
PT40L1033 3U3	3.3	30	0.11	0.9	1.35	G
PT40L103M 4U7	4.7	20	0.16	0.8	1.15	I
PT40L103M 6U8	6.8	20	0.23	0.65	0.9	K
PT40L103M 10U	10	20	0.31	0.5	0.75	M
PT40L103M 15U	15	20	0.41	0.45	0.65	O
PT40L103M 22U	22	20	0.66	0.4	0.5	Q
PT40L103M 33U	33	20	0.96	0.3	0.38	S
PT40L103M 47U	47	20	1.23	0.25	0.33	U
PT40L1233 1U	1	30	0.042	2.3	1.9	A
PT40L1233 1U5	1.5	30	0.057	1.9	1.7	C
PT40L1233 2U2	2.2	30	0.086	1.5	1.55	E
PT40L1233 3U3	3.3	30	0.1	1.3	1.4	G
PT40L123M 4U7	4.7	20	0.13	1.1	1.25	I
PT40L123M 6U8	6.8	20	0.18	0.95	1.05	K
PT40L123M 10U	10	20	0.28	0.75	0.80	M
PT40L123M 15U	15	20	0.39	0.65	0.70	O
PT40L123M 22U	22	20	0.53	0.55	0.60	Q
PT40L123M 33U	33	20	0.85	0.45	0.40	S
PT40L123M 47U	47	20	1.14	0.38	0.35	U
PT40L1533 1U	1	30	0.048	3.60	1.85	A
PT40L1533 1U5	1.5	30	0.057	2.90	1.70	C
PT40L1533 2U2	2.2	30	0.066	2.50	1.60	E
PT40L1533 3U3	3.3	30	0.094	2.20	1.45	G
PT40L153M 4U7	4.7	20	0.12	1.90	1.30	I
PT40L153M 5U6	5.6	20	0.14	1.60	1.20	J
PT40L153M 6U8	6.8	20	0.17	1.40	1.10	K
PT40L153M 10U	10	20	0.23	1.10	0.95	M
PT40L153M 15U	15	20	0.35	0.90	0.75	O
PT40L153M 22U	22	20	0.49	0.80	0.63	Q
PT40L153M 33U	33	20	0.71	0.60	0.58	S
PT40L153M 47U	47	20	1.08	0.55	0.50	U
PT40L153M 68U	68	20	1.65	0.40	0.45	W
PT40L153M 100U	100	20	2.46	0.33	0.38	Y

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PT40L1833 560N	0.56	30	0.041	5.50	1.95	7
PT40L1833 1U	1	30	0.05	4.70	1.85	A
PT40L183M 1U5	1.5	20	0.06	3.70	1.70	C
PT40L183M 1U8	1.8	20	0.065	3.40	1.65	D
PT40L183M 2U2	2.2	20	0.074	3.20	1.60	E
PT40L183M 2U7	2.7	20	0.092	2.90	1.50	F
PT40L183M 3U3	3.3	20	0.097	2.70	1.45	G
PT40L183M 4U7	4.7	20	0.12	2.20	1.30	I
PT40L183M 5U6	5.6	20	0.16	2.00	1.20	J
PT40L183M 6U8	6.8	20	0.17	1.80	1.15	K
PT40L183M 10U	10	20	0.24	1.50	1.00	M
PT40L183M 15U	15	20	0.35	1.2	0.83	O
PT40L183M 22U	22	20	0.49	1	0.63	Q
PT40L183M 47U	47	20	1.17	0.75	0.49	U
PT40L183M 100U	100	20	2.17	0.45	0.28	Y
PT50L1033 1U	1	30	0.059	1.8	1.9	A
PT50L1033 1U5	1.5	30	0.075	1.5	1.7	C
PT50L1033 2U2	2.2	30	0.09	1.2	1.6	E
PT50L1033 3U3	3.3	30	0.12	1.05	1.45	G
PT50L103M 4U7	4.7	20	0.14	0.8	1.35	I
PT50L103M 6U8	6.8	20	0.18	0.7	1.2	K
PT50L103M 10U	10	20	0.22	0.65	1.1	M
PT50L103M 15U	15	20	0.31	0.53	0.93	O
PT50L103M 22U	22	20	0.45	0.47	0.75	Q
PT50L103M 33U	33	20	0.68	0.35	0.57	S
PT50L103M 47U	47	20	1.1	0.3	0.45	U
PT50L1233 680N	0.68	30	0.039	2.7	2.2	8
PT50L1233 1U	1	30	0.039	2.5	2.2	A
PT50L1233 1U5	1.5	30	0.049	2.1	2.05	C
PT50L1233 2U2	2.2	30	0.072	1.9	1.8	E
PT50L123M 3U3	3.3	20	0.083	1.6	1.65	G
PT50L123M 4U7	4.7	20	0.13	1.4	1.4	I
PT50L123M 5U6	5.6	20	0.14	1.20	1.35	J
PT50L123M 6U8	6.8	20	0.16	1.10	1.25	K
PT50L123M 10U	10	20	0.25	0.90	1.05	M
PT50L123M 15U	15	20	0.28	0.70	0.95	O

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PT50L1533 1U	1	30	0.052	3.50	2.05	A
PT50L1533 1U5	1.5	30	0.061	3.00	1.90	C
PT50L1533 2U2	2.2	30	0.071	2.50	1.75	E
PT50L153M 3U3	3.3	20	0.092	2.10	1.65	G
PT50L153M 4U7	4.7	20	0.1	1.90	1.55	I
PT50L153M 6U8	6.8	20	0.14	1.60	1.35	K
PT50L153M 10U	10	20	0.21	1.30	1.10	M
PT50L153M 15U	15	20	0.28	1.00	0.97	O
PT50L153M 22U	22	20	0.4	0.80	0.79	Q
PT50L153M 33U	33	20	0.61	0.65	0.60	S
PT50L153M 47U	47	20	0.85	0.55	0.51	U
PT50L2033 1U	1	30	0.048	5.60	2.10	A
PT50L2033 1U2	1.2	30	0.058	4.70	1.95	B
PT50L2033 1U5	1.5	30	0.066	4.20	1.80	C
PT50L2033 2U2	2.2	30	0.077	3.40	1.70	E
PT50L2033 3U3	3.3	30	0.089	2.80	1.65	G
PT50L2033 3U9	3.9	30	0.097	2.60	1.60	H
PT50L203M 4U7	4.7	20	0.11	2.40	1.50	I
PT50L203M 5U6	5.6	20	0.13	2.30	1.40	J
PT50L203M 6U8	6.8	20	0.14	2.20	1.35	K
PT50L203M 10U	10	20	0.17	2.00	1.20	M
PT50L203M 15U	15	20	0.23	1.50	1.05	O
PT50L203M 22U	22	20	0.35	1.2	0.85	Q
PT50L203M 33U	33	20	0.48	1	0.7	S
PT50L203M 47U	47	20	0.67	0.9	0.55	U
PT70L30JM 4U7	4.7	20	0.048	1.85	2.25	4R7

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