

## SMD Mini Power Inductor – MPE



### Features

- Very low profile.
- Maximum current rating of 1.4 Amps..
- Density design, small size, and low cost.

### Inductance and rated current ranges

- MPE0312 1.0~68 $\mu$ H 1.40~0.17A

- Test equipment:

L: HP4284A LCR meter

Test Frequency 100KHz 0.1Vrms

DC R tested by Milli-ohm meter or equivalent.

Electrical specifications at 25°C .

### Applications

- Camcorder.
- LCD TV.
- MP3-Player
- G.P.S , PDA
- Portable CDR-W
- Digital Camera
- DC/DC converters, etc.

### Product Identification

**MPE 0312 M I 100**

(1) (2) (3) (4) (5)

(1)Type: SMD Mini Power Inductors

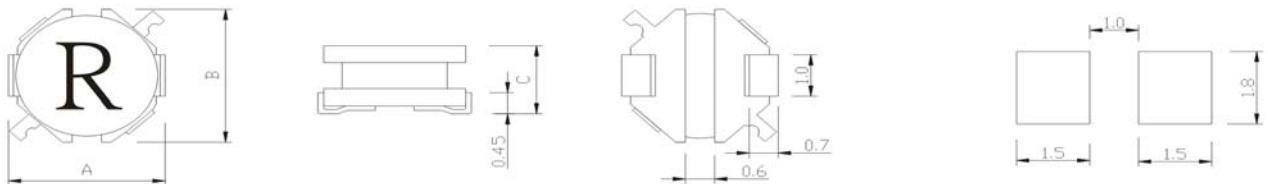
(2)Dimensions(mm):0312=3.2×3.2×1.2

(3)Tolerance: N=30%, M=20%

(4)Packaging style: T (Tape and Reel)

(5)Inductance:1R1=1.1 $\mu$ H, 470=47 $\mu$ H, 101 =100 $\mu$ H

### Dimensions



Codes	A	B	C (max)
MPE0312	3.2±0.3	3.2±0.3	1.2

### Electrical Characteristics

Part No.	L ( $\mu$ H)	DCR max ( $\Omega$ )	IDC (A)	Marking
MPE0312NT1R0	1.0 ±30%	0.08	1.40	A
MPE0312NT1R8	1.8 ±30%	0.11	1.10	C
MPE0312NT2R2	2.2 ±30%	0.12	1.00	D
MPE0312NT2R7	2.7 ±30%	0.15	0.95	E
MPE0312NT4R7	4.7 ±30%	0.28	0.75	H
MPE0312NT5R6	5.6 ±30%	0.31	0.68	I
MPE0312NT6R8	6.8 ±30%	0.36	0.62	K
MPE0312NT7R5	7.5 ±30%	0.39	0.60	L
MPE0312MT100	10 ±20%	0.43	0.53	M
MPE0312MT150	15 ±20%	0.72	0.44	O
MPE0312MT220	22 ±20%	1.18	0.33	R
MPE0312MT330	33 ±20%	1.90	0.26	T
MPE0312MT470	47 ±20%	2.45	0.23	V
MPE0312MT680	68 ±20%	4.20	0.17	X

1. Rated Current: The DC current when the inductance becomes 70% lower than its initial value. (Ta=25°C).

2. Operating temperature range -30 ~ +100°C