

# SMD Power Inductor

## Fixed Inductor for Surface Mounting

## SPE201610H Series

### Construction

- SMD Magnetic-resin shielded type



### Features

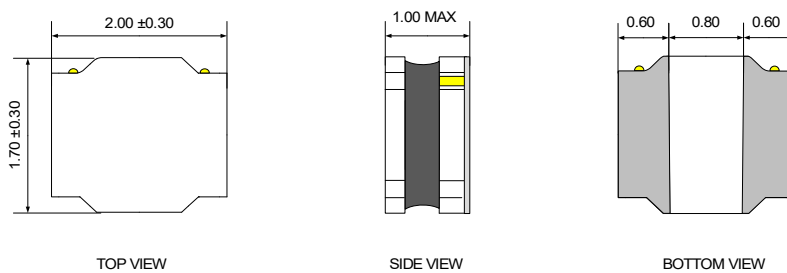
- Qualified to AEC-Q200
- Operating temperature -50 ~ +155°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Suitable for lead-free reflow soldering
- Available on tape and reel for automatic insertion



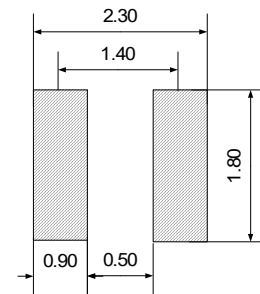
### Applications

- Automotive / PDA / Notebook systems
- DC/DC converters
- Portable gaming devices, personal navigation systems, personal multimedia devices

### Dimensions (Unit:mm)



### Recommended Land Pattern (Unit:mm)



### Electrical Characteristics

Ordering code	Inductance(uH)	DCR(mΩ,MAX)	Isat*1(A,TYP)	Irms*2(A,TYP)	Marking
SPE201610H-R24N	0.24±30%	40.0	4.50	3.15	-
SPE201610H-R33N	0.33±30%	50.0	4.20	3.10	-
SPE201610H-R47N	0.47±30%	55.0	4.00	3.00	-
SPE201610H-R68N	0.68±30%	65.0	3.50	2.80	-
SPE201610H-1R0M	1.00±20%	96.0	3.35	2.20	-

#### ※Test Equipment

\*Inductance : Agilent 4284A (1MHz, 1.0V)

\*DCR Meter : ABM3245 (20mΩ~2MΩ)

\*Bias Current : Agilent 4284A + Agilent 42841A

\*Specifications subject to change without notice. Please check our website for latest information.

#### \*Notes

\*1.Isat : DC current (A) that will cause L0 to drop approximately 30%

\*2.Irms : DC current (A) that will cause an approximate ΔT of 40°C

Revised 01/02/25

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## Electrical Characteristics

Ordering code	Inductance(uH)	DCR(mΩ,MAX)	Isat*1(A,TYP)	Irms*2(A,TYP)	Marking
SPE201610H-1R5N	1.50±20%	130.0	1.95	1.80	-
SPE201610H-2R2N	2.20±20%	195.0	1.90	1.50	-
SPE201610H-3R3N	3.30±20%	310.0	1.40	1.20	-
SPE201610H-4R7M	4.70±20%	440.0	1.20	1.00	-
SPE201610H-6R8M	6.80±20%	540.0	0.90	0.85	-
SPE201610H-100M	10.0±20%	826.0	0.80	0.70	-

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