

# SMD Power Inductor

## Fixed Inductor for Surface Mounting

## SPE4020 Series

### Construction

- SMD Magnetic-resin shielded type



### Features

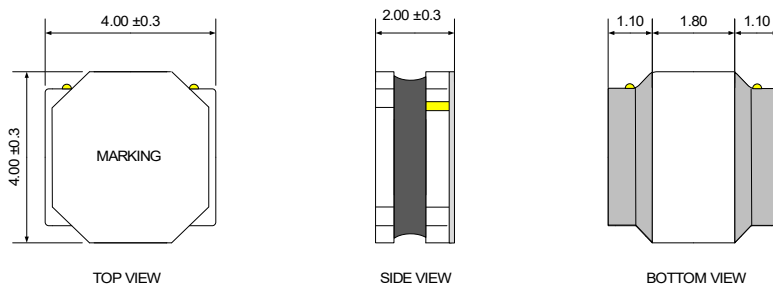
- Qualified to AEC-Q200
- Operating temperature -50 ~ +155C (Including self temperature)
- Solder reflow temperature 260°C peak
- Suitable for lead-free reflow soldering
- Available on tape and reel for automatic insertion



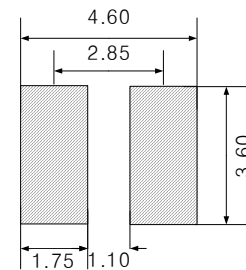
### Applications

- 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,±30%)	Isat*1(A,TYP)	Irms*2(A,TYP)	Marking
SPE4020-1R0N	1.00±30%	23.0	5.10	2.15	1R0
SPE4020-1R5N	1.50±30%	28.0	4.00	1.95	1R5
SPE4020-1R8N	1.80±30%	33.0	3.90	1.90	1R8
SPE4020-2R2N	2.20±30%	40.0	3.40	1.85	2R2
SPE4020-2R7N	2.70±30%	45.0	3.20	1.50	2R7

#### ※Test Equipment

\*Inductance : Agilent 4285A (100kHz, 1.0V)

\*DCR Meter : ABM3245 (20mΩ~2MΩ)

\*Bias Current : Agilent 4285A + 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(m $\Omega$ , $\pm$ 30%)	Isat*1(A,TYP)	Irms*2(A,TYP)	Marking
SPE4020-3R3N	3.30 $\pm$ 30%	56.0	2.90	1.40	3R3
SPE4020-4R7M	4.70 $\pm$ 20%	81.0	2.40	1.30	4R7
SPE4020-5R6M	5.60 $\pm$ 20%	90.0	2.10	1.20	5R6
SPE4020-6R8M	6.80 $\pm$ 20%	115.0	2.00	1.04	6R8
SPE4020-8R2M	8.20 $\pm$ 20%	141.0	1.70	0.95	8R2
SPE4020-100M	10.0 $\pm$ 20%	173.0	1.50	0.90	100
SPE4020-120M	12.0 $\pm$ 20%	185.0	1.30	0.88	120
SPE4020-150M	15.0 $\pm$ 20%	290.0	1.20	0.77	150
SPE4020-220M	22.0 $\pm$ 20%	465.0	1.00	0.62	220
SPE4020-330M	33.0 $\pm$ 20%	595.0	0.85	0.49	330
SPE4020-390M	39.0 $\pm$ 20%	650.0	0.75	0.46	390
SPE4020-470M	47.0 $\pm$ 20%	755.0	0.70	0.44	470
SPE4020-560M	56.0 $\pm$ 20%	1.00 $\Omega$	0.65	0.41	560
SPE4020-680M	68.0 $\pm$ 20%	1.15 $\Omega$	0.60	0.36	680
SPE4020-820M	82.0 $\pm$ 20%	1.90 $\Omega$	0.55	0.34	820
SPE4020-101M	100.0 $\pm$ 20%	2.10 $\Omega$	0.50	0.31	101

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