

SMD Power Inductor

Fixed Inductor for Surface Mounting

SPE6028 Series

Construction

- SMD Magnetic-resin shielded type



Features

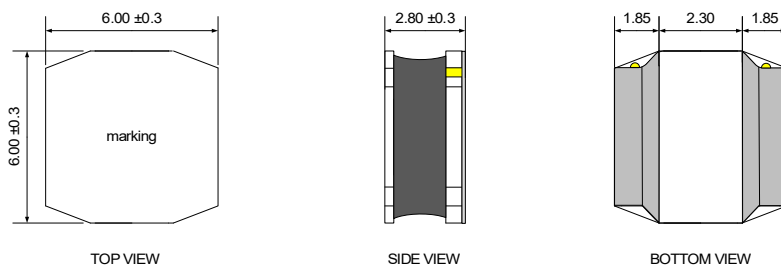
- Qualified to AEC-Q200
- Operating temperature -50 ~ +155°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Suitable for lead-free reflow soldering
- Available on tape and reel for automatic insertion



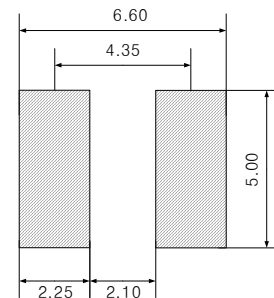
Applications

- 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, ±30%)	Isat*1(A, TYP)	Irms*2(A, TYP)	Marking
SPE6028-1R2N	1.20±30%	13.0	9.50	4.50	1R2
SPE6028-1R8N	1.80±30%	16.0	8.20	4.00	1R8
SPE6028-2R2N	2.20±30%	19.0	7.00	3.60	2R2
SPE6028-3R3N	3.30±30%	22.0	6.10	3.40	3R3
SPE6028-4R7M	4.70±20%	29.0	4.90	3.00	4R7

※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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SPE6028-5R6M	5.60±20%	36.0	4.40	2.60	5R6
SPE6028-6R8M	6.80±20%	43.0	4.00	2.40	6R8
SPE6028-8R2M	8.20±20%	52.0	3.60	2.10	8R2
SPE6028-100M	10.0±20%	57.0	3.40	1.90	100
SPE6028-120M	12.0±20%	73.0	2.90	1.70	120
SPE6028-150M	15.0±20%	85.0	2.70	1.50	150
SPE6028-220M	22.0±20%	121.0	2.20	1.40	220
SPE6028-330M	33.0±20%	183.0	1.70	1.10	330
SPE6028-470M	47.0±20%	250.0	1.50	0.90	470
SPE6028-560M	56.0±20%	325.0	1.20	0.80	560
SPE6028-680M	68.0±20%	384.0	1.10	0.70	680
SPE6028-820M	82.0±20%	457.0	1.00	0.65	820
SPE6028-101M	100.0±20%	550.0	0.90	0.60	101

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