

SMD Power Inductor

Fixed Inductor for Surface Mounting

SPE8040 Series

Construction

- SMD Magnetic-resin shielded type



Features

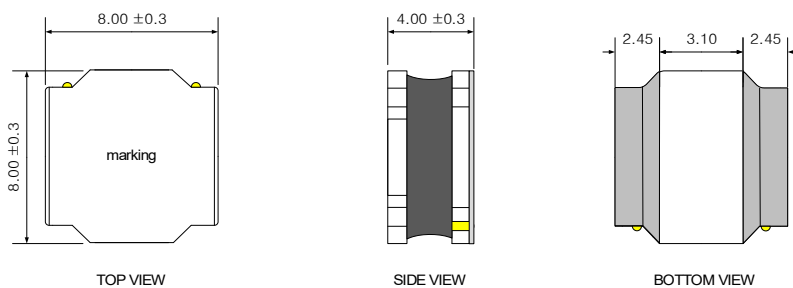
- Qualified to AEC-Q200
- Operating temperature -50 ~ +155°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Suitable for lead-free reflow soldering
- Available on tape and reel for automatic insertion



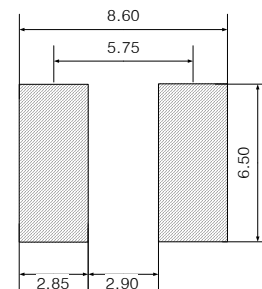
Applications

- 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
SPE8040-R47N	0.47±30%	7.00	12.0	10.0	R47
SPE8040-1R0N	1.00±30%	8.00	11.0	6.30	1R0
SPE8040-1R5N	1.50±30%	10.0	9.50	5.60	1R5
SPE8040-2R2N	2.20±30%	12.0	9.00	5.20	2R2
SPE8040-3R0N	3.00±30%	14.0	7.00	4.70	3R0

※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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SPE8040-3R3N	3.30±30%	16.0	6.50	4.50	3R3
SPE8040-3R9N	3.90±30%	17.0	6.00	4.30	3R9
SPE8040-4R7M	4.70±20%	19.0	5.50	4.10	4R7
SPE8040-5R6M	5.60±20%	23.0	5.20	3.80	5R6
SPE8040-6R8M	6.80±20%	25.0	5.00	3.60	6R8
SPE8040-8R2M	8.20±20%	27.0	4.50	3.40	8R2
SPE8040-100M	10.0±20%	30.0	3.80	3.30	100
SPE8040-150M	15.0±20%	48.0	3.50	2.60	150
SPE8040-220M	22.0±20%	69.0	2.50	2.10	220
SPE8040-330M	33.0±20%	100.0	2.00	1.80	330
SPE8040-470M	47.0±20%	137.0	1.80	1.50	470
SPE8040-560M	56.0±20%	164.0	1.60	1.30	560
SPE8040-680M	68.0±20%	200.0	1.40	1.20	680
SPE8040-820M	82.0±20%	240.0	1.20	1.10	820
SPE8040-101M	100.0±20%	290.0	1.10	1.00	101
SPE8040-121M	120.0±20%	340.0	1.00	0.95	121
SPE8040-151M	150.0±20%	435.0	0.95	0.85	151
SPE8040-221M	220.0±20%	640.0	0.75	0.65	221
SPE8040-331M	330.0±20%	1,000	0.65	0.55	331

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