

SMD Power Inductor

Fixed Inductor for Surface Mounting

SPE252012 Series

Construction

- SMD Magnetic-resin shielded type



Features

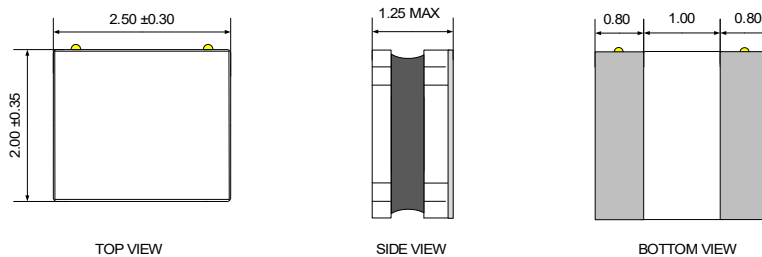
- Qualified to AEC-Q200
- Operating temperature -50 ~ +155°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Suitable for lead-free reflow soldering
- Available on tape and reel for automatic insertion



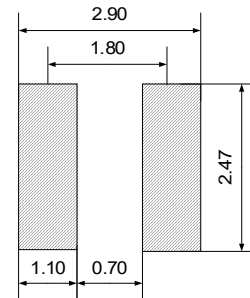
Applications

- 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
SPE252012-R24N	0.24±30%	28.0	4.05	3.50	-
SPE252012-R33N	0.33±30%	40.0	4.00	3.00	-
SPE252012-R47N	0.47±30%	42.0	3.60	2.90	-
SPE252012-R56N	0.56±30%	43.0	3.30	2.80	-
SPE252012-R68N	0.68±30%	45.0	3.28	2.60	-

※Test Equipment

*Inductance : Agilent 4284A (1MHz, 0.1V)

*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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SPE252012-1R0N	1.00±30%	60.0	2.45	2.40	-
SPE252012-1R5N	1.50±30%	84.0	2.05	1.90	-
SPE252012-2R2N	2.20±30%	110.0	1.90	1.80	-
SPE252012-3R3N	3.30±30%	155.0	1.50	1.40	-
SPE252012-4R7M	4.70±20%	228.0	1.35	1.20	-
SPE252012-6R8M	6.80±20%	325.0	1.00	0.90	-
SPE252012-100M	10.0±20%	480.0	0.79	0.75	-
SPE252012-150M	15.0±20%	325.0	0.65	0.55	-
SPE252012-180M	18.0±20%	1,00Ω	0.55	0.50	-
SPE252012-220M	22.0±20%	1,02Ω	0.50	0.45	-
SPE252012-330M	33.0±20%	1,40Ω	0.38	0.37	-
SPE252012-470M	47.0±20%	2,00Ω	0.30	0.29	-

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