

SMD Power Inductor

Fixed Inductor for Surface Mounting

SPE252012H Series

Construction

- SMD Magnetic-resin shielded type



Features

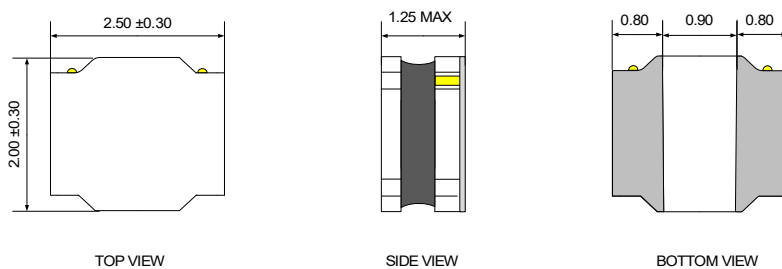
- Qualified to AEC-Q200
- Operating temperature -50 ~ +155°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Suitable for lead-free reflow soldering
- Available on tape and reel for automatic insertion



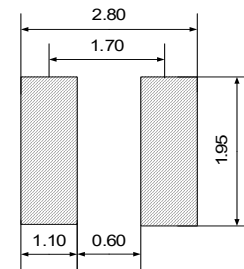
Applications

- 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)	SRF(MHz,TYP)	Isat*1(A,TYP)	Irms*2(A,TYP)	Marking
SPE252012H-R24N	0.24±30%	30.0	200.0	6.50	4.30	-
SPE252012H-R33N	0.33±30%	36.0	145.0	5.30	3.40	-
SPE252012H-R47N	0.47±30%	40.0	125.0	4.90	3.30	-
SPE252012H-R68N	0.68±30%	50.0	90.0	3.85	3.18	-
SPH252012H-1R0N	1.00±30%	65.0	78.0	3.80	3.00	-

※Test Equipment

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

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4284A + Agilent 42841A

*SRF : Agilent HP8753ES

*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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SPE252012H-1R5N	1.50±30%	86.0	58.0	2.90	2.40	-
SPE252012H-2R2N	2.20±30%	115.0	48.0	2.60	2.10	-
SPE252012H-3R3N	3.30±30%	190.0	38.0	1.90	1.80	-
SPE252012H-4R7M	4.70±20%	260.0	34.0	1.80	1.25	-
SPE252012H-6R8M	6.80±20%	380.0	26.0	1.15	1.15	-
SPE252012H-100M	10.0±20%	480.0	18.0	1.10	0.85	-
SPE252012H-220M	22.0±20%	1,08Ω	13.0	0.70	0.35	-

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