SMD Power Inductor

Fixed Inductor for Surface Mounting — SPE5040 Series

Construction

■ SMD Magnetic-resin shielded type

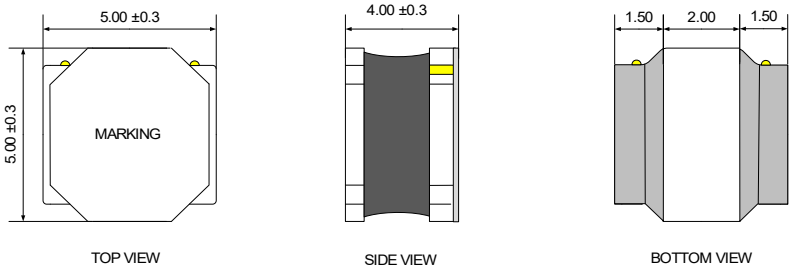
Features

■ 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

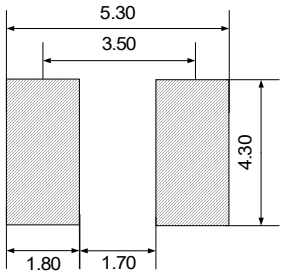
Applications

■ 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
SPE5040-1R0N	1.00±30%	14.0	7.80	4.80	1R0
SPE5040-1R5N	1.50±30%	16.0	6.80	4.20	1R5
SPE5040-1R8N	1.80±30%	18.0	6.20	4.00	1R8
SPE5040-2R2N	2.20±30%	22.0	5.30	3.80	2R2
SPE5040-3R3N	3.30±30%	24.0	4.40	3.40	3R3

※Test Equipment

*Inductance : Agilent 4285A (100kHz, 1.0V)
*DCR Meter : ABM3245 (20mΩ~2MΩ)
*Bias Current : Agilent 4285A + Agilent 42841A

***Notes**

*1.Isat : DC current (A) that will cause L0 to drop approximately 30%
*2.Irms : DC current (A) that will cause an approximate △T of 40℃

*Specifications subject to change without notice. Please check our website for latest information.

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Electrical Characteristics

Ordering code	Inductance(uH)	DCR(mΩ,±30%)	Isat*1(A,TYP)	Irms*2(A,TYP)	Marking
SPE5040-3R6N	3.60±30%	28.0	4.20	3.20	3R6
SPE5040-4R7M	4.70±20%	31.0	3.80	3.00	4R7
SPE5040-5R6M	5.60±20%	37.0	3.40	2.80	5R6
SPE5040-6R8M	6.80±20%	40.0	3.20	2.50	6R8
SPE5040-8R2M	8.20±20%	57.0	2.70	2.20	8R2
SPE5040-100M	10.0±20%	60.0	2.50	2.10	100
SPE5040-150M	15.0±20%	100.0	1.90	1.70	150
SPE5040-220M	22.0±20%	135.0	1.60	1.40	220
SPE5040-330M	33.0±20%	220.0	1.30	1.00	330
SPE5040-470M	47.0±20%	275.0	1.00	0.75	470
SPE5040-560M	56.0±20%	395.0	0.90	0.70	560
SPE5040-680M	68.0±20%	440.0	0.80	0.55	680
SPE5040-820M	82.0±20%	545.0	0.75	0.50	820
SPE5040-101M	100.0±20%	610.0	0.65	0.35	101
SPE5040-221M	220.0±20%	1.65Ω	0.45	0.25	221
SPE5040-331M	330.0±20%	2.70Ω	0.35	0.20	331
SPE5040-102M	1.00mH±20%	6.20Ω	0.20	0.15	102
SPE5040-222M	2.20mH±20%	14.0Ω	0.11	0.10	222

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