

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE5040

SMD Magnetic-resin shielded type

UNIT : mm

TYPE SPE5040

For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 1.0 ~ 1,000uH

Features

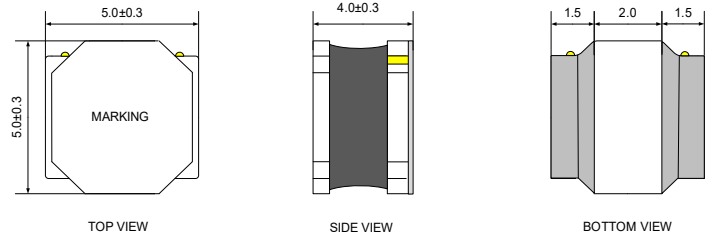
*Low profile (4.0mm high)

*Suitable for reflow soldering

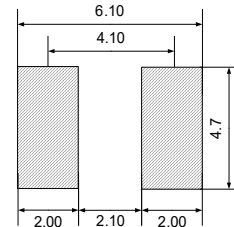
*Available on tape and reel for automatic insertion

*Pass the AEC-Q200 Certification Test

Dimensions



Recommended PCB Pattern:



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Rated current (A,max)	Temperature rise current (A,max)	Marking
SPE5040-1R0N	1.0±30%	14	7.0	4.8	1R0
SPE5040-1R5N	1.5±30%	16	6.0	4.2	1R5
SPE5040-1R8N	1.8±30%	18	5.5	4.0	1R8
SPE5040-2R2N	2.2±30%	22	5.1	3.8	2R2
SPE5040-3R3N	3.3±30%	24	4.2	3.4	3R3
SPE5040-3R6N	3.6±30%	28	4.1	3.2	3R6
SPE5040-4R7M	4.7±20%	31	3.5	3.0	4R7
SPE5040-5R6M	5.6±20%	37	3.2	2.8	5R6
SPE5040-6R8M	6.8±20%	40	2.7	2.5	6R8
SPE5040-8R2M	8.2±20%	57	2.4	2.2	8R2
SPE5040-100M	10±20%	60	2.3	2.1	100
SPE5040-150M	15±20%	100	1.9	-	150
SPE5040-220M	22±20%	135	1.6	-	220
SPE5040-330M	33±20%	220	1.2	-	330
SPE5040-470M	47±20%	275	1.0	-	470
SPE5040-560M	56±20%	395	0.9	-	560
SPE5040-680M	68±20%	440	0.8	-	680
SPE5040-820M	82±20%	545	0.75	-	820
SPE5040-101M	100±20%	610	0.65	-	101
SPE5040-221M	220±20%	1.65Ω	0.45	-	221
SPE5040-331M	330±20%	2.70Ω	0.35	-	331
SPE5040-102M	1,000±20%	6.20Ω	0.20	-	102

Standard Parts selection Guide

*Inductance : Agilent 4285A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4285A + Agilent 42841A

*Temperature rise current : DC current that causes the temperature rise (ΔT =40°C) from 25°C ambient.

*Inductance drop = 30% at rated current / 판정기준 :3초이내 측정

Note: It is developing excepts the thing which we produced