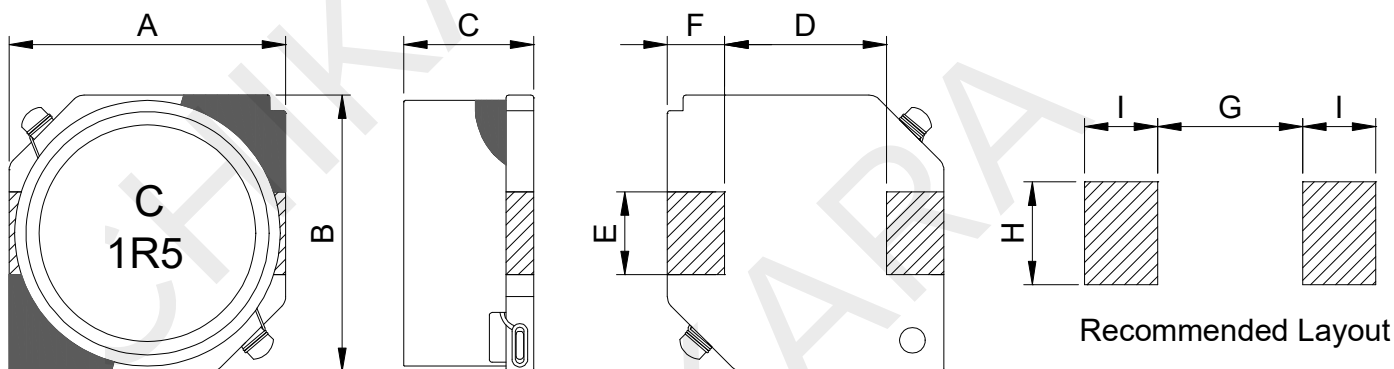


Features

- Magnetically shielded construction
- Storage temperature range:-40°C to +125°C
- Operating temperature range:-40°C to +125°C
(including coil's self-temperature rise)
- Moisture sensitivity level:1
- Packaging:1000pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



A	B	C	D	E	F	G	H	I
6.0±0.3	6.0±0.3	4.5±0.3	3.0±0.3	2.0±0.2	1.5±0.2	3.0	2.2	2.0

Part Number Description

SP10 - 060045 1R5 M
① ② ③ ④

①	Type
②	Dimensions
③	Inductance value
④	Tolerance code

Electrical Schematic



Electrical Characteristic

Part Number	Inductance L0(uH)	DCR (Ω)	Isat (A)Max.	Irms (A)Max.
SP10-0600451R5M	1.5±20%	0.016±30%	4.00	4.10
SP10-0600452R2M	2.2±20%	0.018±30%	3.30	3.80
SP10-0600453R3M	3.3±20%	0.022±30%	2.80	3.40
SP10-0600454R7M	4.7±20%	0.027±30%	2.40	3.20
SP10-0600456R8M	6.8±20%	0.033±30%	2.00	2.80
SP10-060045100M	10±20%	0.039±30%	1.60	2.70
SP10-060045150M	15±20%	0.060±30%	1.30	2.20
SP10-060045220M	22±20%	0.082±30%	1.10	1.80

- Test frequency and voltage:100KHz,0.1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 10%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

Soldering Specification

- Reflow profile for SMT components



- Classification of peak package body temperature (Tp)

	Package Thickness	Package Volume		
		<350mm ³	350~2000mm ³	>2000mm ³
PB-Free Assembly	<1.6mm	260°C	260°C	260°C
	1.6~2.5mm	260°C	250°C	245°C
	≥2.5mm	250°C	245°C	245°C

※ Reflow is referred to standard IPC/JEDEC J-STD-020D.