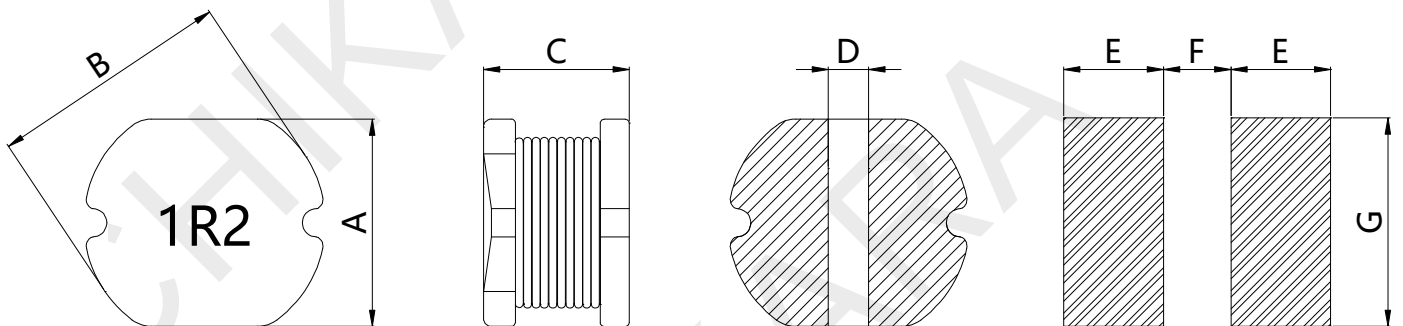


Features

- High energy storage and very low resistance
- 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:1500pcs. Per 13-inch reel
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



Recommended Layout

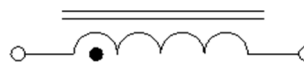
A	B	C	D	E	F	G
5.2±0.3	Ø5.8±0.3	4.5±0.35	2.0Typ.	2.15	1.7	5.5

Part Number Description

SP03 - 0605 A 1R2 M
① ② ③ ④ ⑤

①	Type
②	Dimensions
③	Shape code
④	Inductance value
⑤	Tolerance code

Electrical Schematic

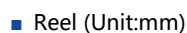


Electrical Characteristic

Part Number	Inductance L0(μH)	DCR (Ω)Typ.	DCR (Ω)Max.	SRF (MHz)Typ.	Isat (A)Typ.	Irms (A)Max.
SP03-0605A1R2M	1.2±20%	0.016	0.020	155	6.00	5.30
SP03-0605A1R5M	1.5±20%	0.019	0.024	123	5.30	5.00
SP03-0605A2R2M	2.2±20%	0.023	0.031	80	4.20	4.35
SP03-0605A2R7M	2.7±20%	0.028	0.055	60	3.80	4.00
SP03-0605A3R3M	3.3±20%	0.030	0.060	50	3.50	3.80
SP03-0605A3R9M	3.9±20%	0.034	0.065	44	3.20	3.60
SP03-0605A4R7M	4.7±20%	0.039	0.070	47	3.00	3.40
SP03-0605A5R6M	5.6±20%	0.042	0.075	41	2.75	3.20
SP03-0605A6R8M	6.8±20%	0.047	0.080	36	2.40	3.00
SP03-0605A8R2M	8.2±20%	0.054	0.090	31	2.20	2.80
SP03-0605A100M	10±20%	0.062	0.100	32	2.00	2.60
SP03-0605A120M	12±20%	0.068	0.120	29	1.85	2.50
SP03-0605A150K	15±10%	0.095	0.140	26	1.65	2.30
SP03-0605A180K	18±10%	0.114	0.150	24	1.50	2.00
SP03-0605A220K	22±10%	0.128	0.180	19	1.35	1.80
SP03-0605A270K	27±10%	0.140	0.200	18	1.20	1.70
SP03-0605A330K	33±10%	0.184	0.230	17	1.10	1.55
SP03-0605A390K	39±10%	0.215	0.320	17	1.00	1.40
SP03-0605A470K	47±10%	0.258	0.370	14	0.90	1.25
SP03-0605A560K	56±10%	0.298	0.420	12	0.82	1.10
SP03-0605A680K	68±10%	0.343	0.460	11	0.74	1.00
SP03-0605A820K	82±10%	0.436	0.600	8	0.68	0.90
SP03-0605A101K	100±10%	0.559	0.700	7	0.62	0.80
SP03-0605A121K	120±10%	0.599	0.900	7	0.60	0.75
SP03-0605A151K	150±10%	0.900	1.100	7	0.52	0.52
SP03-0605A181K	180±10%	1.030	1.380	6	0.50	0.50
SP03-0605A221K	220±10%	1.325	1.570	5	0.47	0.47

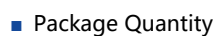
- Test frequency and voltage:1MHz,1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 10%.
- Heat rated current(Irms) will cause the coil temperature rise approximately Δt of 40°C.

- Carrier Tape (Unit:mm)



- Taping Method

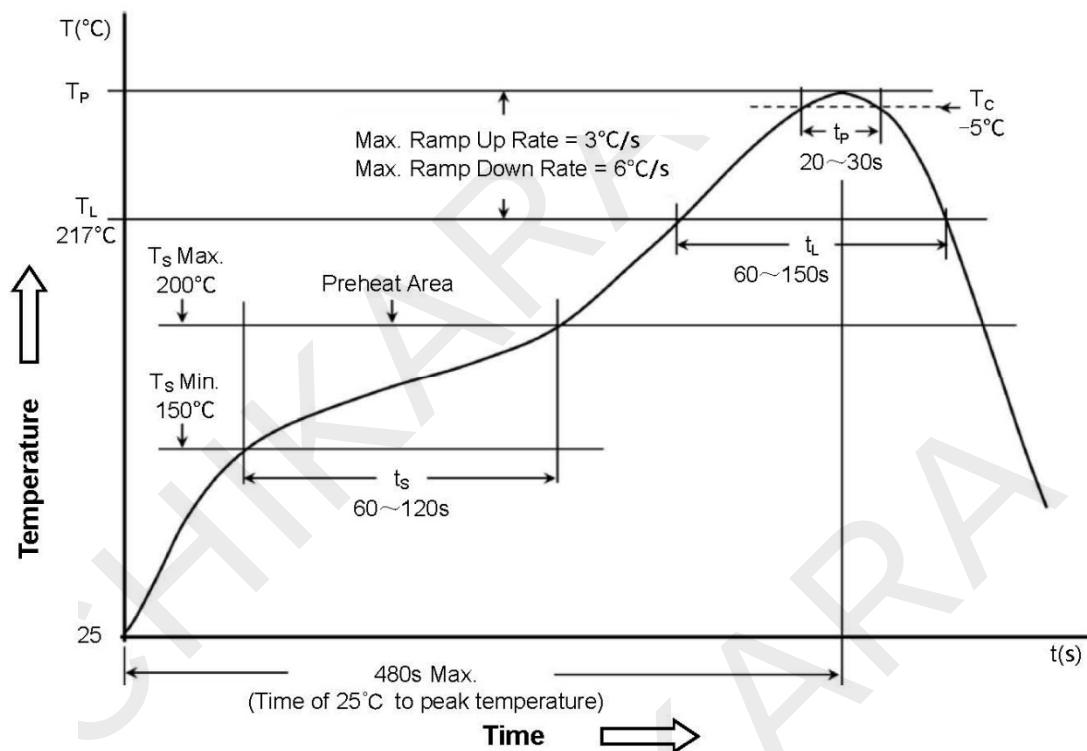
✖ Packing is referred to the international standard IEC 60286-3.



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Version:A2 Revised:11/24/2022

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.