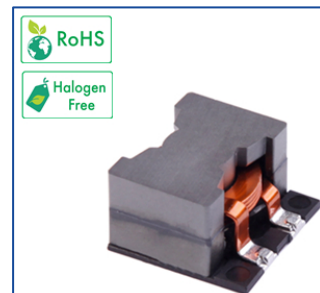
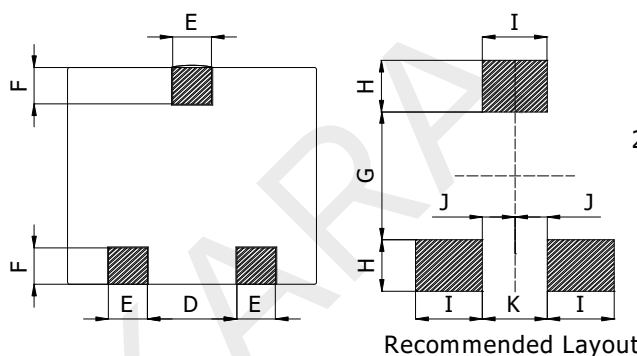
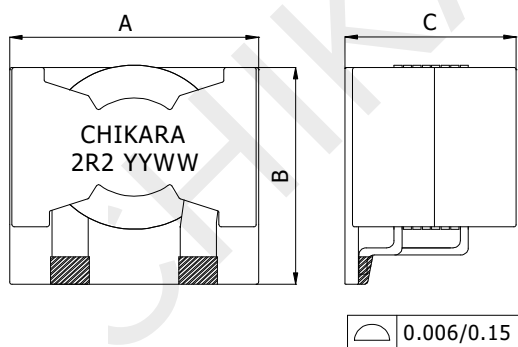


Features

- 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:50pcs. Per tray
- RoHs&Halogen-free compliant



Mechanical Dimension(Unit:mm)



CHIKARA
①
2R2 YYWW
② ③

- ① Brand
- ② Inductance code
(see table)
- ③ Year Week

A	B	C	D	E	F	G	H	I	J	K
27.9Max.	27.9Max.	15.9Max.	5.5±0.3	4.6±0.2	4.6±0.2	15.1	6.0	5.8	2.15	4.3

Part Number Description

SP13 - 2816 B 2R2 M
① ② ③ ④ ⑤

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

Electrical Schematic



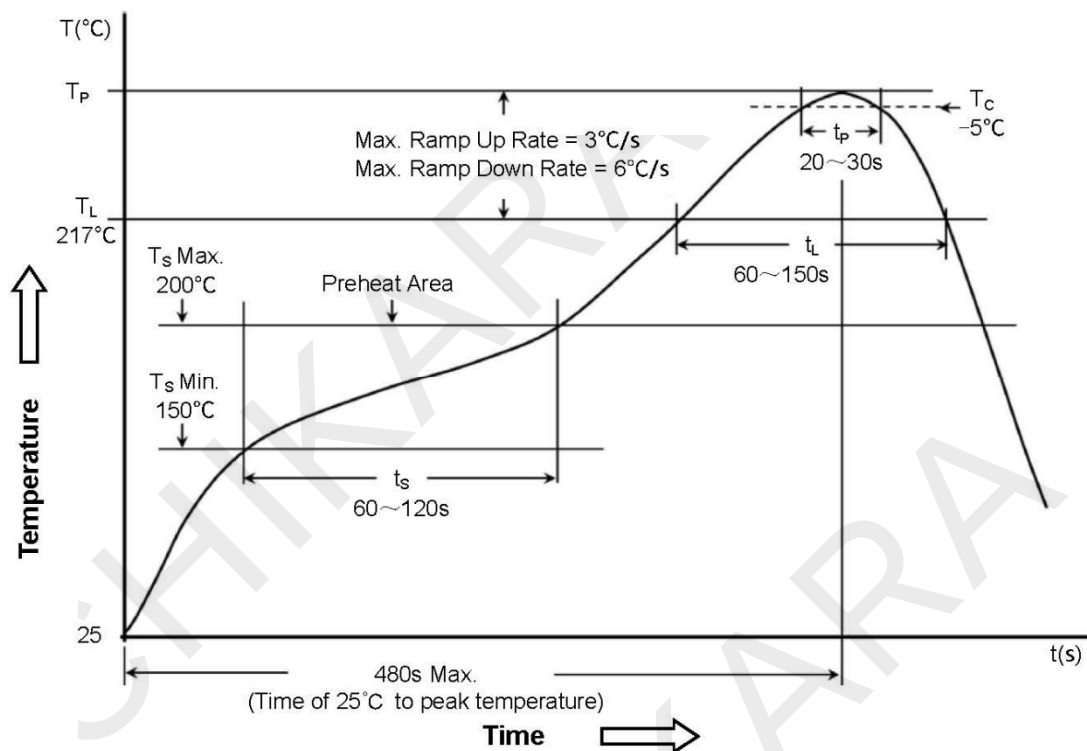
Electrical Characteristic

Part Number	Inductance L0(uH)	DCR (mΩ)Typ.	DCR (mΩ)Max.	SRF (MHz)Typ.	Isat (A)Typ.	Irms (A)Typ.
SP13-2816B2R2M	2.2±20%	1.86	2.05	40	100.0	30
SP13-2816B3R3M	3.3±20%	1.86	2.05	30	68.4	30
SP13-2816B4R7M	4.7±20%	1.86	2.05	25	50.1	30
SP13-2816B6R8M	6.8±20%	1.86	2.05	20	36.2	30
SP13-2816B100K	10±10%	1.86	2.05	15	23.4	30
SP13-2816B150K	15±10%	1.86	2.05	12	15.2	30
SP13-2816B220K	22±10%	1.86	2.05	10	9.60	30
SP13-2816B330K	33±10%	1.86	2.05	8	5.90	30

- Test frequency and voltage:500KHz,0.1Vrms.
- All test data referenced to 25°C ambient.
- Saturation current(Isat) will cause L0 to drop approximately 30%.
- 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.