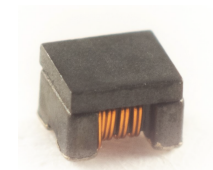
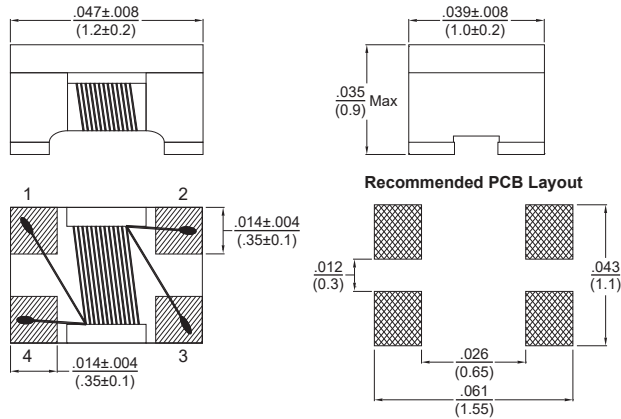




Common Mode Filter

SCMHF20

Dimensions: $\frac{\text{inch}}{\text{mm}}$



Allied Part Number	Impedance (Ω) ±25%	Test Frequency MHz	DCR (Ω) Max	Rated Current (mA)	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	IR (Ω) Min
SCMHF20-500T-RC	50	100	0.3	250	50	125	10M
SCMHF20-670T-RC	67	100	0.3	250	50	125	10M
SCMHF20-900T-RC	90	100	0.4	200	50	125	10M

All specifications subject to change without notice.

Features

- SMD (0504) common mode filter
- Excellent noise attenuation in a small package
- Suitable for automated assembly
- Excellent solderability
- Great for use in USB3.0 applications
- Halogen free

Electrical

Impedance range: 50Ω to 90Ω
Tolerance: 25% over entire range
Test Frequency: 100MHz
Operating Temp: -40°C to +125°C
Rated Current: Based on temp rise of 40°C above ambient with no current

Solderability

Pre-Heat: 150°C, 60S
Solder: Sn96.5%, Ag3%, Cu0.5%
Temperature: 245°C ±5°C
Flux for lead free: Rosin 9.5%
Dip Time: 4 ±1S
Depth: Completely cover termination

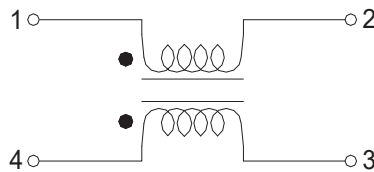
Test Equipment

(L): Agilent 4291A + Agilent 16197A
DCR: Agilent 4338B
Insulation Resistance: Agilent 4339

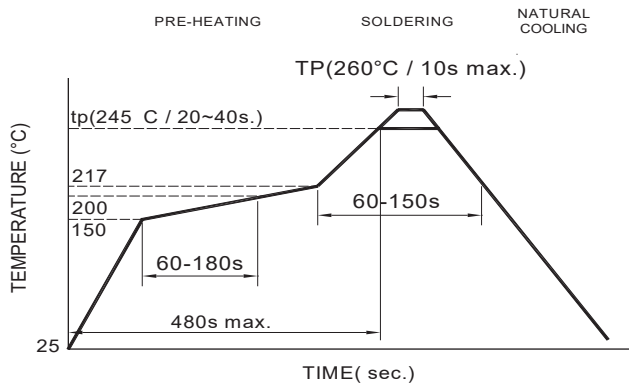
Physical

Packaging: 2000pcs per 7 inch reel
Marking: None

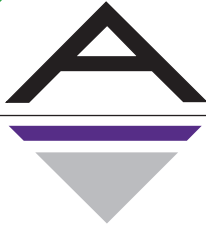
Schematic



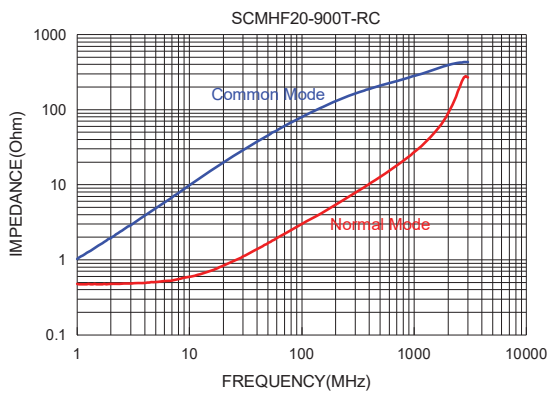
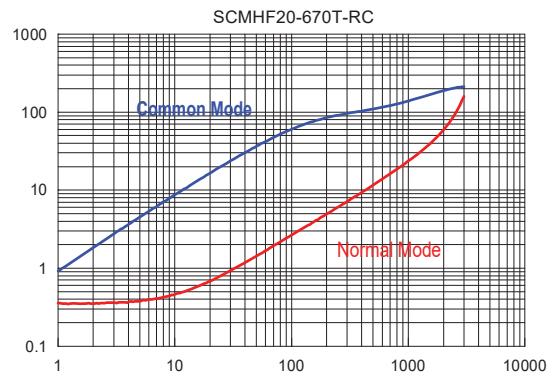
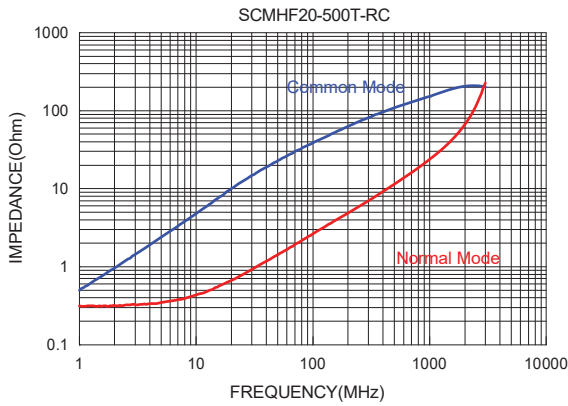
Reflow Solder Profile



Reflow times: 3 times max.



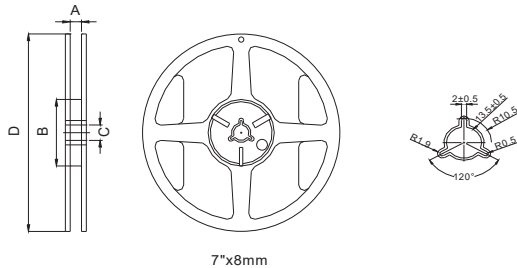
Typical Performance Curves





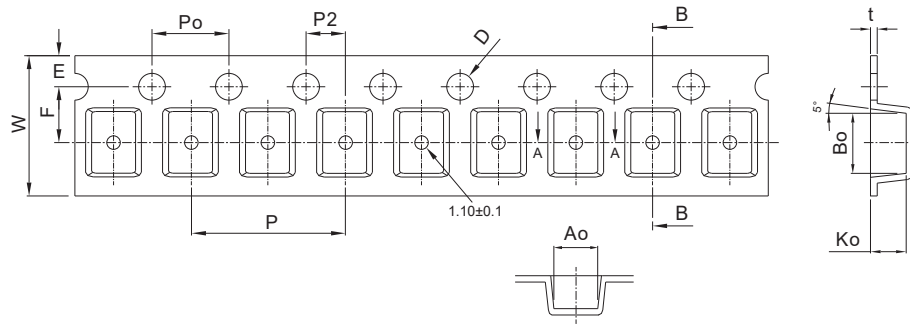
Packaging Information

(1) Reel Dimension



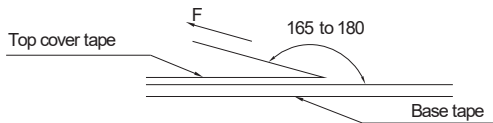
Type	A(mm)	B(mm)	C(mm)	D(mm)
178x8mm	9.0±0.5	60±2.0	13.5±0.5	178±2.0

(2) Tape Dimension



Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	W(mm)	t(mm)	Emm	F(mm)	D(mm)	Po(mm)	P2(mm)
1.50±0.1	1.25±0.1	1.05±0.1	4.0±0.1	8.0±0.1	0.22±0.05	1.75±0.1	3.5±0.05	1.5±0.1	4.0±0.1	2.0±0.05

(3) Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp. (°C)	Room Humidity (%)	Room atm (hPa)	Tearing Speed mm/min
5~35	45~85	860~1060	300

Application Notice

- Storage Conditions

To maintain the solderability of terminal electrodes:

1. SCMHF20 products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
2. Temperature and humidity conditions: Less than 40°C and 60% RH.
3. Recommended products should be used within 12 months from the time of delivery.
4. The packaging material should be kept where no chlorine or sulfur exists in the air.

- Transportation

1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
3. Bulk handling should ensure that abrasion and mechanical shock are minimized.