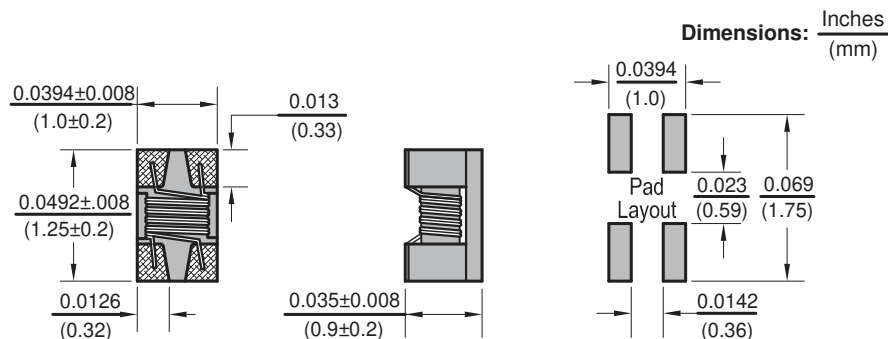


# SCM05 USB 3.0 Common Mode Choke



## Features

- Miniature SMD common mode filter
- Excellent noise attenuation in a small package
- Suitable for automated assembly
- Excellent solderability

## Electrical

**Impedance range:** 60Ω to 160Ω  
**Tolerance:** 20% over entire range  
**Test Frequency:** 100MHz  
**Operating Temp:** -25°C ~ 85°C  
**IDC:** Inductance drop 10% Typ. from original value with no current  
**DCR:** Single Wire Test Value

Allied Part Number	Impedance Z (Ω)	Tolerance (%)	Test Freq. (MHz)	Rated Voltage (Vdc)	Insulation Resistance (MΩ)min	DCR Max. (Ω)	IDC Max. (mA)
SCM05-600M-RC	60	20	100	20	10	0.40	300
SCM05-670M-RC	67	20	100	50	10	0.25	300
SCM05-900M-RC	90	20	100	50	10	0.30	250
SCM05-121M-RC	120	20	100	50	10	0.40	200
SCM05-161M-RC	160	20	100	50	10	0.43	160

All specifications subject to change without notice.

## Resistance to Solder Heat

Pre-Heat 150°C, 1 minute  
**Solder Composition:** Sn/Ag3.0/Cu0.5  
**Solder Temp:** 260°C peak for 10 sec.  
**Test time:** 6 minutes

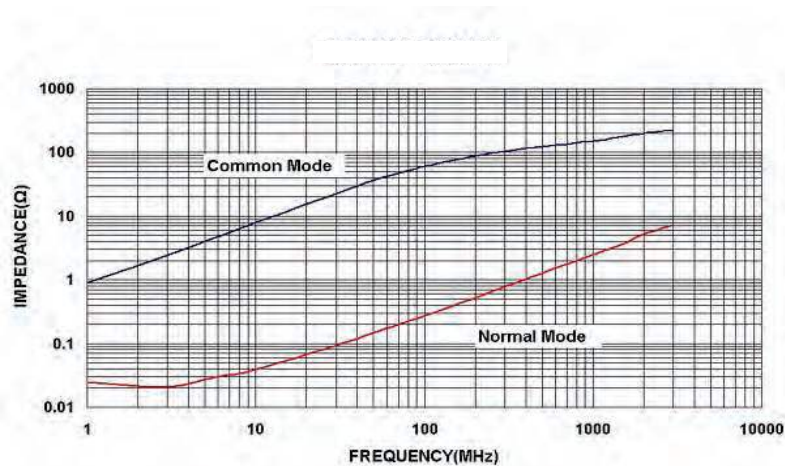
## Test Equipment

**Impedance:** HP4286A / HP4287A / Agilent E4991A  
**(DCR):** Chen Hwa 502BC  
**Insulation Resistance:** HP4339B  
**(IDC):** HP4284A with HP42841A / HP4285A with HP42841A

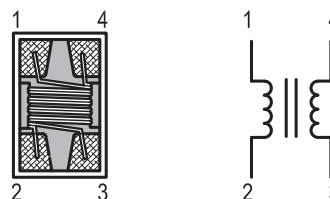
## Physical

**Packaging:** 2000 pieces per 7 inch reel  
**Marking:** None

Impedance vs. Frequency Graph



## SCHEMATIC



NO POLARITY EQUIVALENT CIRCUIT