

### Features

1. Effective for suppressing common mode noise at high frequencies.
2. Compact design.
3. Excellent solderability characteristic.
4. Lead Free (RoHS Compliance)

### Applications

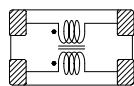
1. Noise suppression in digital bus line equipment.
2. USB host controller & USB, HUB control lines.
3. For HDMI interfaces used in digital video devices.

### Ordering Information

| SCL | - | 2   | M   | 2012 | - | 900 | J   | T   |
|-----|---|-----|-----|------|---|-----|-----|-----|
| (1) |   | (2) | (3) | (4)  |   | (5) | (6) | (7) |

#### (1) Series

SCL : Electrode directed in horizontal line



SCL : Horizontal Design  
SCL - series

#### (2) Pole type

2 : 2 Line (Single)

#### (5) Common mode impedance (at 100MHz)

First two digits are values.  
Last digits is the number of zeros following

#### (3) Material & Design

M : General Signal line  
Y,S : High speed Differential signal line

#### (6) Termination

J : Nickel barrier

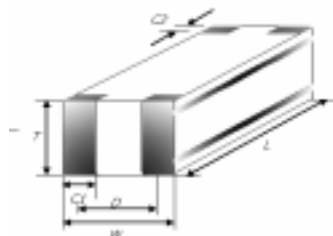
#### (4) Dimension

First two digits : length(mm)  
Last two digits : width(mm)

#### (7) Packaging

B : Bulk Packing  
T : Tape & Reel (Φ 178mm [ 7inches])  
L : Tape & Reel (Φ 254mm [10inches])

### Shape and Dimensions



SCL-2□ series

unit : mm (inches)

| Type        | L                      | W                       | T                      | C <sub>1</sub>           | C <sub>2</sub>           | D                        | M            |
|-------------|------------------------|-------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------|
| SCL-2□2012- | 2.0±0.2<br>[.079±.008] | 1.25±0.2<br>[.049±.008] | 1.0±0.1<br>[.039±.004] | 0.425±0.2<br>[.017±.008] | 0.25±0.15<br>[.010±.006] | 0.825±0.1<br>[.032±.004] | ----<br>---- |

### Electrical Parameters

#### SCL-series -M type

| Part No.         | Impedance<br>[Ω] at 100MHz<br>Typ. | DC<br>Resistance<br>Max.(Ω) | Rated<br>current<br>Max.(mA) | Rated<br>Voltage<br>Max.(V) | Insulation<br>Resistance<br>Min.(MΩ) |
|------------------|------------------------------------|-----------------------------|------------------------------|-----------------------------|--------------------------------------|
| SCL-2M2012-700JT | 70                                 | 0.60                        | 400                          | 10                          | 100                                  |
| SCL-2M2012-900JT | 90                                 | 0.70                        | 400                          | 10                          | 100                                  |
| SCL-2M2012-121JT | 120                                | 0.80                        | 400                          | 10                          | 100                                  |
| SCL-2M2012-181JT | 180                                | 1.00                        | 330                          | 10                          | 100                                  |
| SCL-2M2012-221JT | 220                                | 1.00                        | 330                          | 10                          | 100                                  |

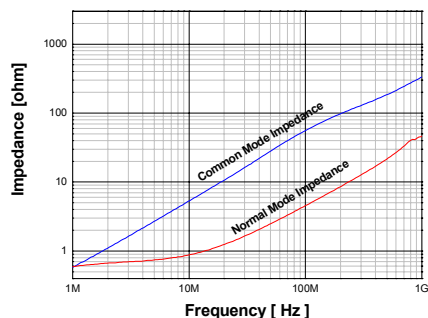
#### SCL-series -Y type

| Part No.         | Impedance<br>[Ω] at 100MHz |           | DC<br>Resistance<br>Max.(Ω) | Rated<br>current<br>Max.(mA) | Rated<br>Voltage<br>Max.(V) | Insulation<br>Resistance<br>Min.(MΩ) |
|------------------|----------------------------|-----------|-----------------------------|------------------------------|-----------------------------|--------------------------------------|
|                  | Typ.                       | Tolerance |                             |                              |                             |                                      |
| SCL-2Y2012-900□□ | 90                         | ±25%      | 0.70                        | 400                          | 10                          | 100                                  |
| SCL-2Y2012-121□□ | 120                        | ±25%      | 0.80                        | 400                          | 10                          | 100                                  |
| SCL-2Y2012-181□□ | 180                        | ±25%      | 1.00                        | 330                          | 10                          | 100                                  |
| SCL-2Y2012-301□□ | 300                        | ±25%      | 2.00                        | 250                          | 10                          | 100                                  |

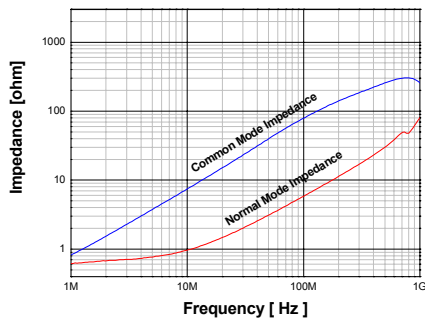
### Electrical Characteristic Curves

#### 2012 – 2Line ( Single)

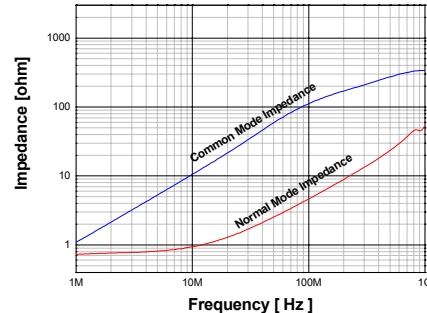
SCL-2M2012-700J



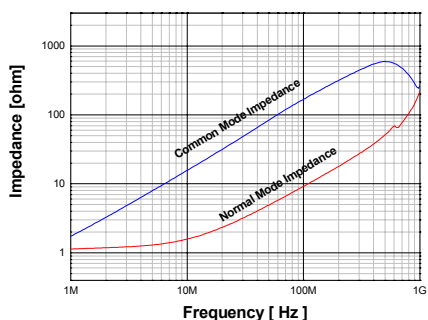
SCL-2M2012-900J



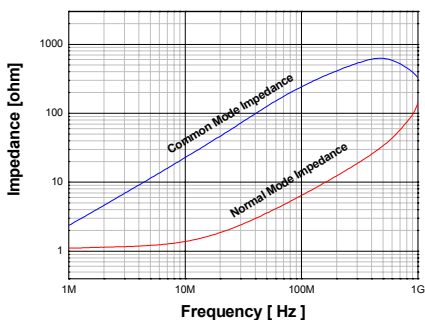
SCL-2M2012-121J



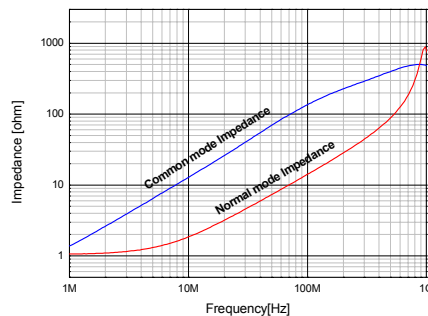
SCL-2M2012-181J



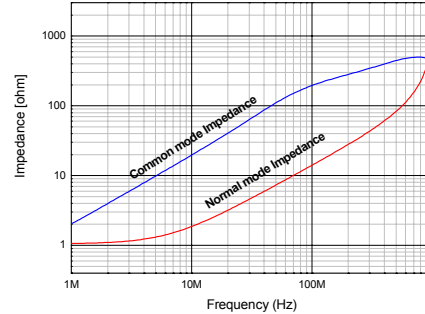
SCL-2M2012-221J



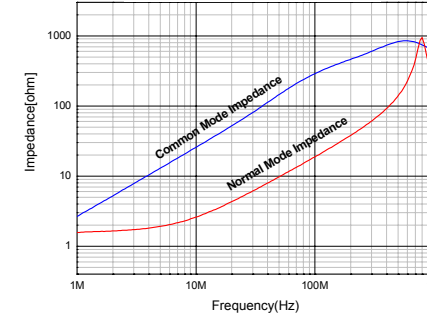
SCL-2Y2012-121J



SCL-2Y2012-181J



SCL-2Y2012-301J



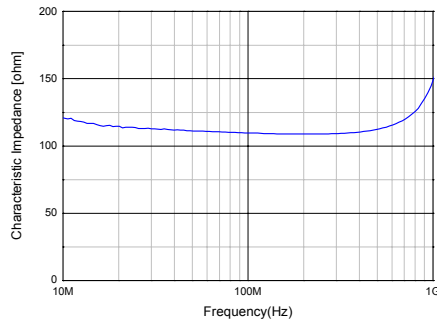
\*All specifications are subject to change without notice.

## Characteristic Impedance vs. Frequency characteristics

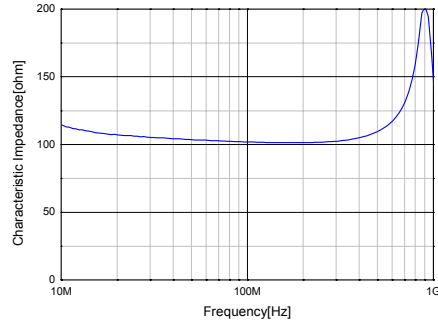
2012-2Line

- SCL-series - Y type

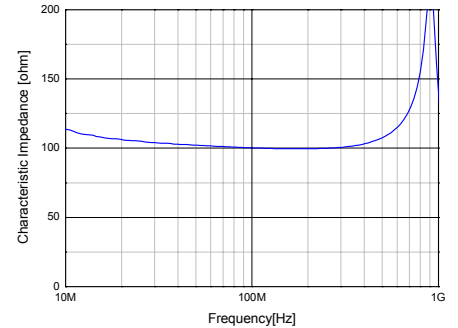
SCL-2Y2012-900J



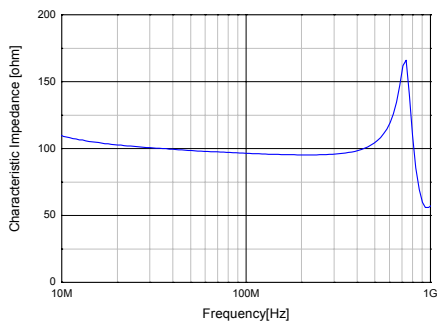
SCL-2Y2012-121J



SCL-2Y2012-181J



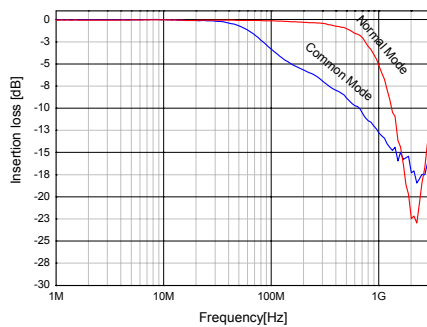
SCL-2Y2012-301J



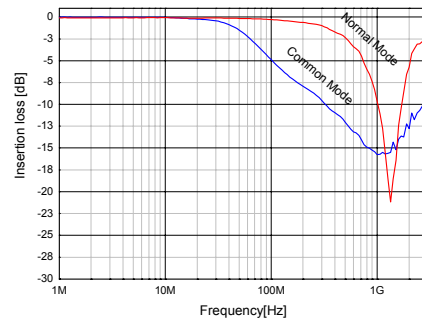
## Insertion loss vs. Frequency Characteristics

- SCL-series -Y series

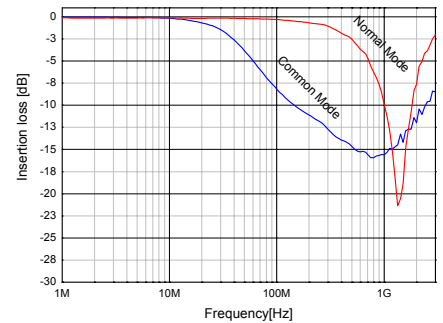
SCL-2Y2012-900J



SCL-2Y2012-121J



SCL-2Y2012-181J



SCL-2Y2012-301J

