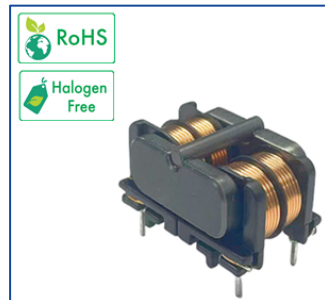
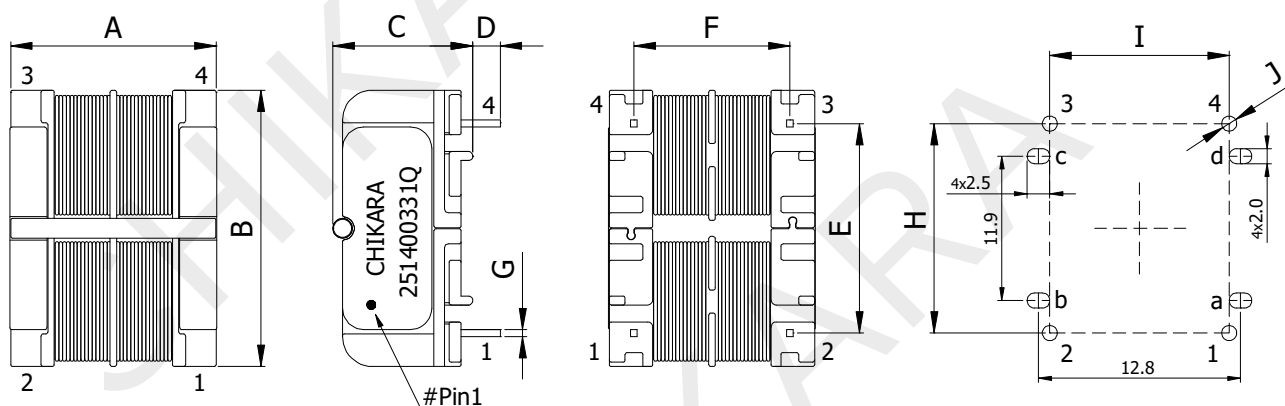


### Features

- Common and differential mode suppression
- 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:600pcs. Per box
- RoHs&Halogen-free compliant



### Mechanical Dimension(Unit:mm)



Recommend Layout

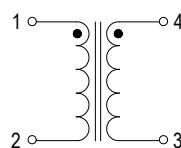
| A        | B        | C        | D       | E        | F      | G         | H    | I  | J    |
|----------|----------|----------|---------|----------|--------|-----------|------|----|------|
| 15.0Max. | 25.0Max. | 14.6Max. | 3.5±0.5 | 18.8±0.5 | 10±0.5 | □0.65±0.1 | 18.8 | 10 | Ø1.3 |

### Part Number Description

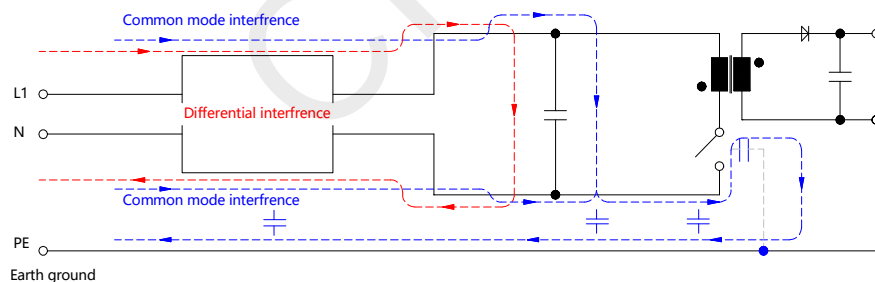
DCM12 - 2514 0033 1 Q  
① ② ③ ④ ⑤

|   |                              |
|---|------------------------------|
| ① | Type                         |
| ② | Dimensions                   |
| ③ | Inductance value(0033=3.3mH) |
| ④ | The "1" means with bypass    |
| ⑤ | Tolerance code               |

### Electrical Schematic



### Common Mode And Differential Mode Interference



### Electrical Characteristic

| Part Number      | Inductance<br>L0(mH) | Leakage Inductance<br>(uH)Typ. | DCR<br>(Ω)Typ. | Rated Current<br>(A)Max. | Rated Voltage<br>(V/ac)Max. | Hi-Pot<br>(Coil - Coil) |
|------------------|----------------------|--------------------------------|----------------|--------------------------|-----------------------------|-------------------------|
| DCM12-251410001Q | 100+50%/-30%         | 2220                           | 2.70           | 0.45                     | 300                         | 2.5KV AC/3mA/3S         |
| DCM12-251407801Q | 78+50%/-30%          | 1640                           | 1.80           | 0.58                     | 300                         | 2.5KV AC/3mA/3S         |
| DCM12-251406801Q | 68+50%/-30%          | 1500                           | 1.50           | 0.62                     | 300                         | 2.5KV AC/3mA/3S         |
| DCM12-251404701Q | 47+50%/-30%          | 1120                           | 1.26           | 0.75                     | 300                         | 2.5KV AC/3mA/3S         |
| DCM12-251403901Q | 39+50%/-30%          | 860                            | 1.10           | 0.85                     | 300                         | 2.5KV AC/3mA/3S         |
| DCM12-251403301Q | 33+50%/-30%          | 580                            | 0.77           | 0.92                     | 300                         | 2.5KV AC/3mA/3S         |
| DCM12-251401501Q | 15+50%/-30%          | 350                            | 0.40           | 1.32                     | 300                         | 2.5KV AC/3mA/3S         |
| DCM12-251401001Q | 10+50%/-30%          | 180                            | 0.24           | 1.65                     | 300                         | 2.5KV AC/3mA/3S         |
| DCM12-251400331Q | 3.3+50%/-30%         | 85                             | 0.16           | 2.50                     | 300                         | 2.5KV AC/3mA/3S         |

- Test frequency and voltage:10KHz,0.05Vrms.
- All test data referenced to 25°C ambient.
- Rated current: The AC current at which the temperature rise is  $\Delta t$  of 40°C.

### Characteristic Curve (Typical value)

