



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



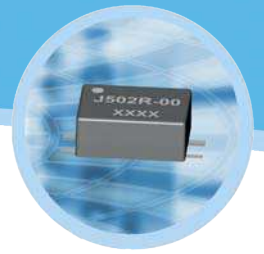
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CAN-Bus Common Mode Chokes

Current compensated surface mount common mode chokes for controller area networks (CAN-Bus) in automotive, industrial and medical applications.

Features:

- Surface Mount
- Accurate current matching capability over a broad range of inductance values
- Sector wound coils at 25 & 51 μH to filter differential mode noise from the data signal.
- Low distortion
- Custom designs possible
- Smaller (1812) size parts are also available.

Applications:

- Automotive controller area network systems
- Industrial controls controller area network systems
- Medical monitoring systems
- Filtering common mode EMI on high speed differential lines such as network and telecom applications

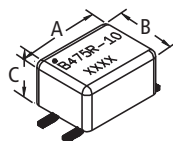
| <u>CC</u> | <u>1812</u> | <u>C</u> | <u>513</u> | <u>R</u> | <u>-10</u> |
|---------------------|----------------|--------------------|----------------------|----------------|------------------------|
| Product Series Code | Part Size Code | Rated Current Code | Impedance Value Code | Packaging Code | Additional Description |

Operating Temperature Range: -40°C to +125°C (0°C to 125°C for $L_p \geq 1000 \mu\text{m}$)

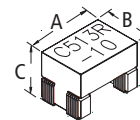
| PART NUMBER | Lp Inductance (μH) | | | Impedance (Z) | L leakage (μH) | Hi-Pot (VAC) 0.5 mA 2 sec. | DCR Typical (Ω) | Idc (mA) continuous | |
|----------------|---------------------------------|--------|--------|---------------|-----------------------------|----------------------------|--------------------------|---------------------|------|
| | Test Conditions | MIN | NOM | | | | | | MAX |
| CC1812C513R-10 | 100 KHz / 50 mV | 35.7 | 51.0 | 66.3 | 3500 Ω @40 MHz | 2.60 | 250 | 0.50 | 200 |
| CC2824J502R-10 | 100 KHz / 50 mV | 3.5 | 5.0 | 6.5 | 400 Ω @500 MHz | 0.05 | 250 | 0.10 | 1200 |
| CC2824E113R-10 | 100 KHz / 50 mV | 7.7 | 11.0 | 14.3 | 800 Ω @200 MHz | 0.05 | 250 | 0.12 | 800 |
| CC2824E253R-10 | 100 KHz / 50 mV | 17.5 | 25.0 | 32.5 | 2000 Ω @100 MHz | 1.50 | 250 | 0.13 | 800 |
| CC2824E513R-10 | 100 KHz / 50 mV | 35.0 | 51.0 | 66.3 | 3800 Ω @50 MHz | 2.00 | 250 | 0.16 | 800 |
| CC2824E474R-10 | 100 KHz / 50 mV | 329.0 | 470.0 | 611.0 | 8600 Ω @5 MHz | 0.20 | 750 | 0.20 | 700 |
| CC2824E105R-10 | 100 KHz / 50 mV | 700.0 | 1000.0 | 1500.0 | 4250 Ω @7 MHz | 0.20 | 750 | 0.20 | 700 |
| CC2824D225R-10 | 10 KHz / 50 mV | 1540.0 | 2200.0 | 3300.0 | 5300 Ω @5 MHz | 0.25 | 750 | 0.40 | 500 |
| CC2824B475R-10 | 10 KHz / 50 mV | 3290.0 | 4700.0 | 7050.0 | 12300 Ω @2 MHz | 0.30 | 750 | 0.55 | 400 |

Dimensions

| PART NUMBER | A mm (inches) | B mm (inches) | C mm (inches) |
|-------------|----------------------|----------------------|----------------------|
| CC2824 | 7.50 MAX (0.295 MAX) | 5.50 MAX (0.217 MAX) | 3.80 MAX (0.150 MAX) |
| CC1812 | 5.00 MAX (0.197 MAX) | 3.50 MAX (0.138 MAX) | 5.55 MAX (0.140 MAX) |



CC2824
Surface Mount



CC1812
Surface Mount



Typical Insertion Loss @ 50 Ω

