



**Features**

- Low cost, compact SMD for pick and place compatibility while providing consistent and reliable coplanarity
- High attenuation over a wide frequency range - to 500MHz
- Manufactured in an ISO-9001:2000, TS-16949:2002 and ISO-14001:2004 certified Talema facility
- Other inductance values available upon request
- Fully RoHS compliant and meets lead free reflow level J-STD-020C fully RoHS compliant



**Electrical Specifications @ 25°C**

Nominal Voltage: 42Vac (50/60Hz), 80Vdc  
 Operating Temperature: -25° to +125°C  
 Storage Temperature: -40° to +125°C  
 Climatic category: according to IEC68-1 25/125/56  
 Test voltage between windings: 500 Vrms

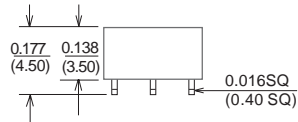
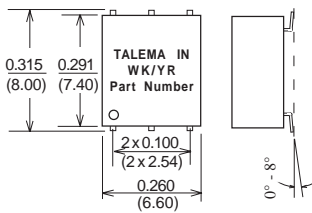
**Test frequency**

Nominal Inductance: measured @ 100kHz / 20 mVrms  
 Leakage Inductance: measured @ 100kHz / 100mVrms  
 Test Equipment: HP4192A

Common Mode Chokes for Data and Signal Line EMI Noise Suppression						
Part Number	OCL ( $\mu\text{H} \pm 30\%$ )	$I_N$ (mA)	$L_L$ ( $\mu\text{H}$ )	DCR (mOhms Typ)	$V_T$ (Vrms)	Number of Data Lines
<b>Double chokes • 2 windings per core</b>						
CSJ-2-110	11	600	0.05	80	500	2
CSJ-2-470	47	500	0.10	148	500	2
CSJ-2-101	100	500	0.11	320	500	2
CSJ-2-471	471	500	0.15	290	500	2
CSJ-2-102	1000	500	0.16	275	500	2
CSJ-2-222	2200	400	0.12	345	500	2
CSJ-2-472	4700	300	0.19	940	500	2
CSJ-2-103	10000	200	0.36	1400	500	2
CSJ-2-203	20000	140	1.00	1800	500	2
CSJ-2-473	47000	100	1.00	3900	500	2
<b>Tri chokes • 3 windings per core</b>						
CSJ-3-110	11	600	0.05	80	500	3
CSJ-3-470	47	500	0.10	148	500	3
CSJ-3-101	100	500	0.11	320	500	3
CSJ-3-471	471	500	0.15	290	500	3
CSJ-3-102	1000	500	0.16	320	500	3
CSJ-3-222	2200	400	0.12	590	500	3
CSJ-3-472	4700	300	0.19	940	500	3
CSJ-3-123	12000	130	0.40	1800	500	3
<b>Quad chokes • 4 windings per core</b>						
CSJ-4-110	11	600	0.05	80	500	4
CSJ-4-470	47	500	0.10	200	500	4
CSJ-4-101	100	500	0.10	360	500	4
CSJ-4-471	471	500	0.15	280	500	4
CSJ-4-102	1000	500	0.09	350	500	4
CSJ-4-222	2200	400	0.06	650	500	4
CSJ-4-472	4700	300	0.09	910	500	4
CSJ-4-123	12000	130	0.36	2200	500	4

# CSJ Series • Dimensions & Impedance Performance

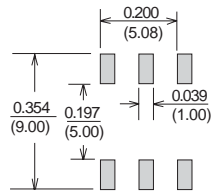
## CSJ-2 & 3



Surface Coplanarity will be 0.004(0.10)

Dimensions: Inches (Millimeters)  
Tolerance:  $\pm 0.010$  (0.25)

## Suggested Pad Layout

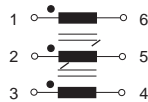


### Schematic

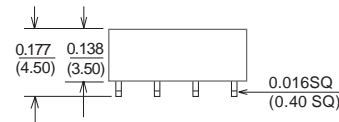
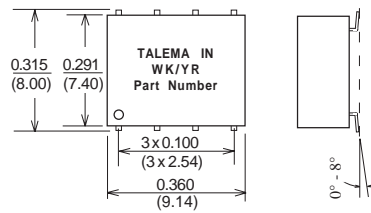
#### 2 Data Lines



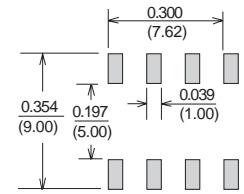
#### 3 Data Lines



## CSJ-4

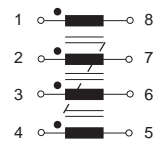


## Suggested Pad Layout



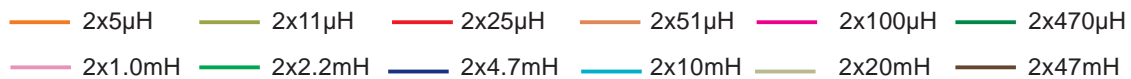
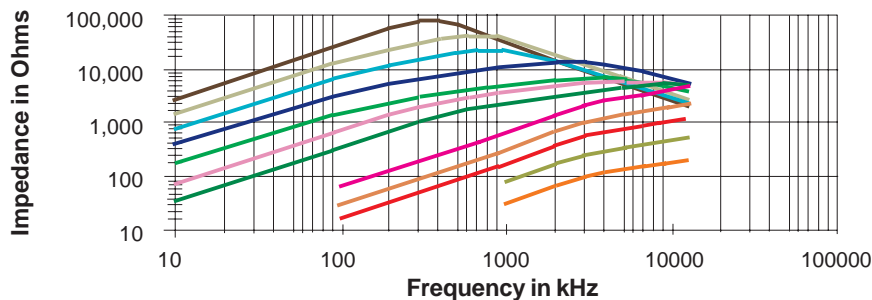
### Schematic

#### 4 Data Lines



## Impedance Performance

### CSJ-2 Series Double Chokes with Bifilar Winding



### CSJ-4 Series Quad Chokes

