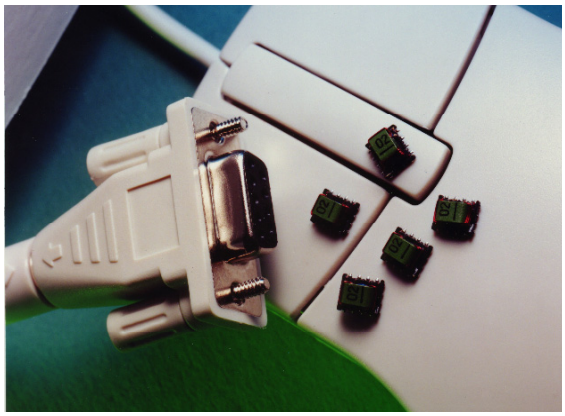
# B5W Series

## COMMON MODE CHOKE FOR IEEE 1394 APPLICATIONS

## DESCRIPTION

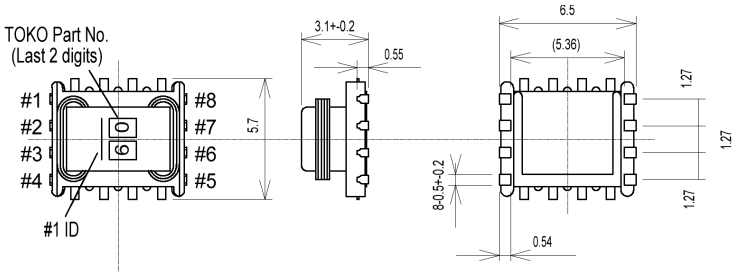
The B5W is a dual wound common mode choke ideal for common mode noise attenuation in twisted pair cable interfaces as well as IEEE 1394 applications. An excellent impedance balance between two sets of twisted pairs is achieved by winding across a single core. One B5W common mode choke coil per interface port is possible with this dual winding configuration.



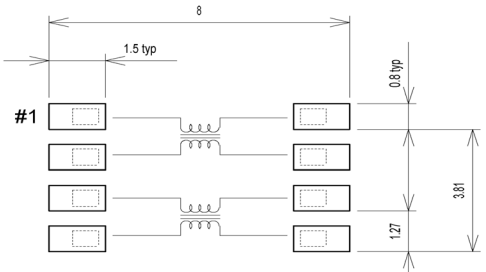
## FEATURES

- Low profile: 3.4 mm (Max.)
- Common mode impedance of 220 Ω at 100 MHz (typical)
- Operating temperature: -10°C to +60°C
- Storage temperature: -25°C to +70°C
- Suitable for reflow soldering
- Packaged on 2,000 piece reels

## DIMENSIONS AND FOOTPRINT




Tolerance: +/- 0.3
Unit: mm

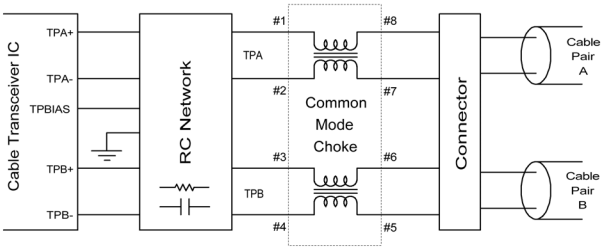



Tolerance: +/- 0.2
Unit: mm

| Toko Part No. | Insertion Loss | | $I_{DC}$ | $R_{DC}$ | Withstand Voltage |
|---|---|---|---|---|---|
| 857CM-0009 | 50 MHz | 2.8 dB +/- 2.0 dB | 0.65 A (Max.) | 0.3 Ω (Max.) | 100 VDC |
| | 100 MHz | 7.3 dB +/- 2.5 dB | | | |
| | 300 MHz | 12.0 dB +/- 3.0 dB | | | |
| | 500 MHz | 14.0 dB +/- 3.0 dB | | | |

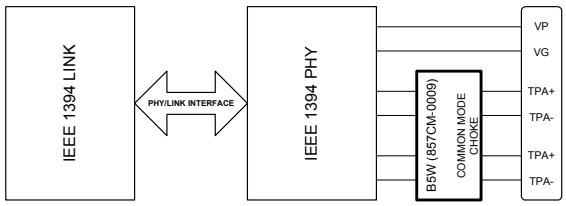
## APPLICATIONS

### Twisted Pair Cable Interface



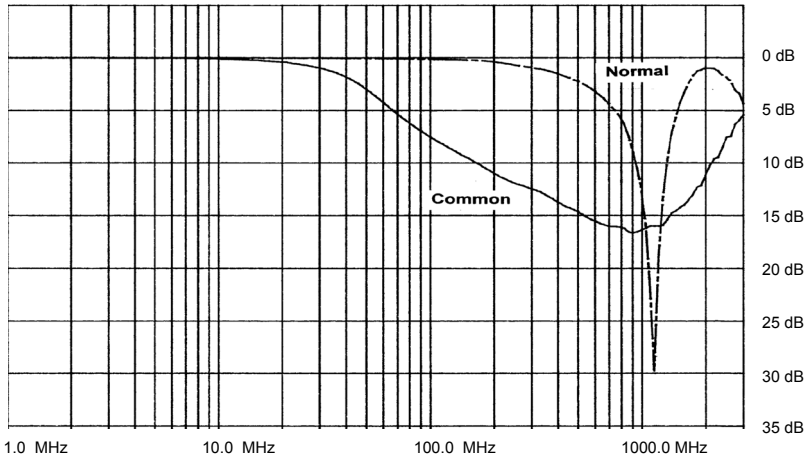

B5W (857CM-0009)

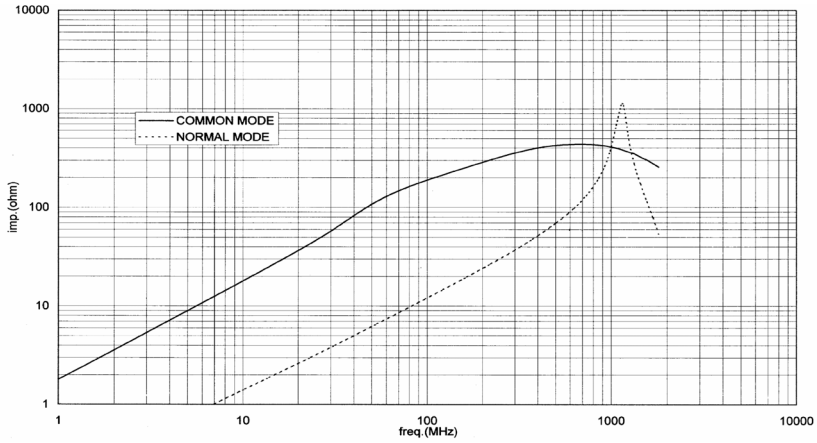
### IEEE 1394 Port

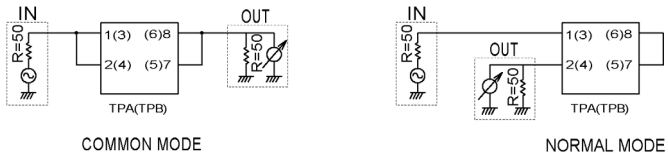



IEEE 1394 PORT (1)

## ATTENUATION AND IMPEDANCE CHARACTERISTICS OF 857CM-0009



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