

# C2235



tyco Electronics

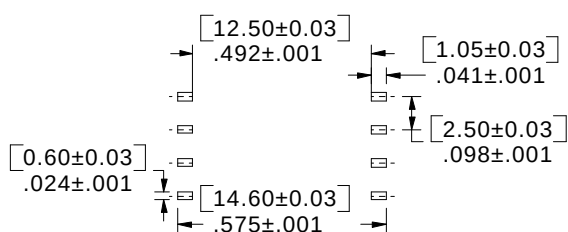
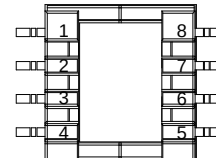
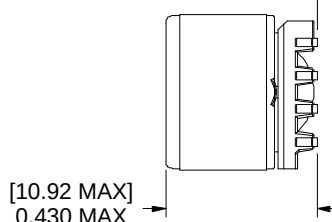
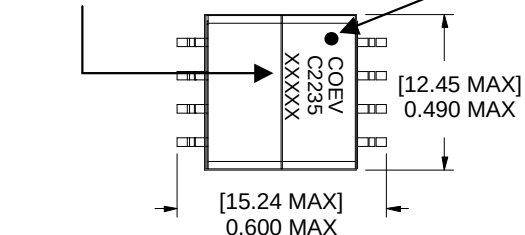
## Product Description

**ADSL Line Coupling Transformer**  
Meets the requirements Of IEC60950 & UL1950 For Suppl. Insulation, 250V Working Voltage

EIA date code and lot code

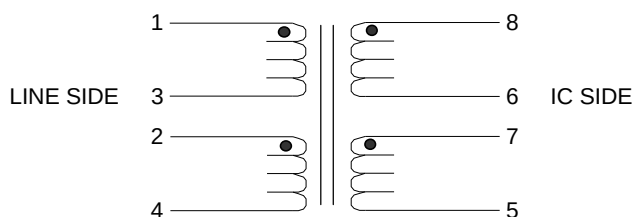
Customer Terminal #1 Indicator

Coplanar with surface A  
+0.006"/-0.000"



Terminal Dimensions

Customer to determine PCB pad dimensions.



Primary units are in inches. Millimeters are in brackets.

### Electrical Specifications at +20°C unless noted otherwise

| Test Description           | Limit | Units | Tol   | Notes                                                              |
|----------------------------|-------|-------|-------|--------------------------------------------------------------------|
| Inductance                 | 850   | μH    | 5%    | 1-4 tie( 2+3 ), 10kHz, 100mVAC, Ls.                                |
| Leakage Inductance         | 10    | μH    | Max.  | 1-4 tie( 2+3, 7+6, 8-5 ), 100kHz, 100mVAC, Ls.                     |
| DC Resistance              | 1.63  | Ω     | Max.  | 8-6                                                                |
| DC Resistance              | 1.32  | Ω     | Max.  | 1-3                                                                |
| DC Resistance              | 1.32  | Ω     | Max.  | 2-4                                                                |
| DC Resistance              | 2.09  | Ω     | Max.  | 7-5                                                                |
| Turns Ratio                | 1 : 1 | ---   | 1%    | ( 1-4 ) : ( 8-5 ) tie( 2+3, 7+6 ), 10KHz, 100mVAC.                 |
| Dielectric                 | 1,875 | VAC   | 500μA | 1-8 tie( 2+3, 7+6 ), 1 second test, 500μA maximum leakage current. |
| Interwinding Capacitance   | 40    | pF    | Max.  | 1-8 tie( 2+3, 1+4, 7+6, 8+5 ), 100kHz, 100mVAC, Cs.                |
| Total Harmonic Distortion  | -88   | dB    | Max.  | 40kHz, 2.5Vrms [ 7.07 Vp-p ], Line : IC                            |
| Total Harmonic Distortion  | -52   | dB    | Max.  | 5kHz, 2.0Vrms [ 5.66 Vp-p ], Line : IC                             |
| Insertion Loss             | 0.70  | dB    | Max.  | Line : IC, 100kHz                                                  |
| Frequency Response         | ±0.8  | dB    | Max.  | Line : IC, 30kHz - 1.1MHz, 100kHz reference                        |
| Longitudinal Balance (ITU) | 42    | dB    | Min.  | Line : IC, 1.1MHz                                                  |

Designed to reflect 100 ohms on the Line with 100 ohms on the IC side.

Operating Temperature Range: -40°C to -85°C.

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