



10/100 Base T Single Port Transformer

AHSC-1603S

- Low Profile
- Cw/w: 15PF TYP @100KHz, 200mV
- LL: 0.5uH Max @100KHz, 200mV
- Polarity: 1-16, 6-11, In-Phase
- DCR: 1.4Ω Max
- Operating Temp: 0°C to +70°C

Electrical Specifications @ 25°C

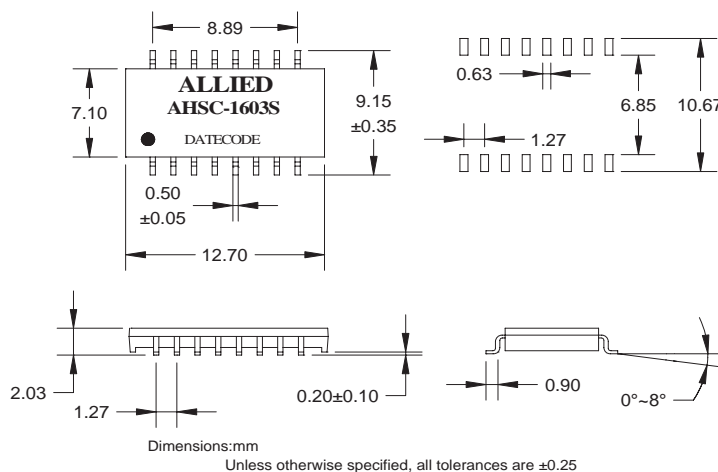
| Part Number | OCL(uH Min)<br>@ 100kHz, 200mV | Turns Ratio<br>chip: cable<br>(±3%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |           |       |       |
|-------------|--------------------------------|-------------------------------------|----------------------------|-------------------------|-----------|-------|-------|
|             | With 8mA DC Bias               |                                     |                            | 0.30-100MHz             | 0.3-30MHz | 40MHz | 50MHz |
| AHSC-1603S  | 350                            | 1CT:1CT(TX)/1CT:1CT(RX)             | -1.1                       | -18                     | -15.5     | -13.5 | -10   |

Electrical Specifications @ 25°C

| Part Number | Differential to Common Mode Rejection<br>(dB Min) |           | Cross Talk<br>(dB Min) | Isolation<br>HI-POT<br>(Vrms) 60S |
|-------------|---|-----------|------------------------|-----------------------------------|
|             | 0.30-60MHz  | 60-100MHz |                        |                                   |
| AHSC-1603S  | -33   | -26       | -38                    | 1500                              |

All specifications subject to change without notice.

MECHANICAL



SCHEMATICS

