**Features**
- Compliant with IEEE802.3 standards
- Designed for 10/100/1000 Base-T and PoE+
- PoE up to 1.2 ADC per center tap
- RoHS compliant*

**Applications**
- LAN
- Ethernet
- Power over Ethernet - PoE+

**Electrical Specifications @ 25 °C**
- Turns Ratio (TD:MX) ±5 % .......1CT:1CT
- OCL (@100 kHz, 0.1 V, 28 mA, DC Bias) ......... 80 µH min.
- Leakage Inductance (TD, MX Short) @ 100 kHz, 0.1 V ......... 0.5 µH max.
- DCR (TD) ................. 1.4 ohms max.
- Cww (TD to MX) @ 100 kHz, 0.1 V .......... 25 pF typ.
- Hi-Pot (Pri to Sec) ...... 1500 Vrms, 1 mA, 60 seconds

**Insertion Loss (TD:MX)**
- 0.3 to 1 MHz ..............-1.1 dB max.
- 1 to 65 MHz ..............-0.8 dB max.
- 65 to 100 MHz ............-1 dB max.
- Return Loss (TD, MX w/100 Ω load) 1 to 40 MHz ..............-16 dB min.
- 40 to 100 MHz ............-10+20*Log10(f/80 MHz) dB min.
- Cross Talk (Between Each Channel)
- 1 to 30 MHz ..............-41 dB min.
- 30 to 60 MHz ..............-37 dB min.
- 60 to 100 MHz ............-33 dB min.
- Common Mode Rejection (TD:MX)
- 0.3 to 100 MHz ............-3 dB min.
- PoE+ Current .............. Up to 1.2 ADC per center tap
- Operating Temperature Range ............-40 °C to +85 °C
- Storage Temperature Range ............-55 °C to +125 °C

**Packaging Specifications**
- Tape & Reel .............. 350 pcs./reel

**How To Order**
- Model SM51625 E L
- Packaging E = Tape and Reel (350 pcs./reel)
- Termination L = Tin (RoHS Compliant)

**Temperature Solder Profile**

---
Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.
Packaging Specifications

QUANTITY: 350 PCS. PER REEL

DIMENSIONS: MM (INCHES)

USER DIRECTION OF FEED

QUANTITY: 350 PCS. PER REEL

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com
EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com
The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com
www.bourns.com

Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.