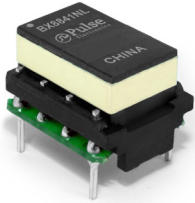


# XDSL SPLITTER FILTER MODULE

BX8841NL - SmartER series - Extended Temperature

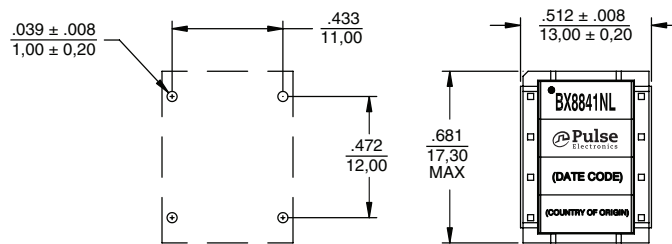


- Ⓢ POTS CO splitter for ETSI-B 600Ω ADSL to VDSL2 applications
- Ⓢ POTS CO splitter for China YD/T 1187-2006 ADSL2+ 600Ω
- Ⓢ LPF matched to 600Ω impedance
- Ⓢ Metering Pulse 12 kHz to 16 kHz
- Ⓢ Part of a standard series which has footprint compatibility
- Ⓢ Compliant with Broadband Forum TR-127 standard for VDSL2 applications
- Ⓢ Patented technology US7598837, US7598839, CN1667763, EP1644943, TWI316724, CA2531599

Electrical Specifications @ 25°C Operational Temperature -40°C to +85°C		
PARAMETER	FREQUENCY	
POTS Impedance	200 Hz to 4 kHz	600 Ω
POTS Insertion Loss	@ 1 kHz	0.3 dB MAX
POTS Insertion Loss Distortion	200 Hz to 4 kHz	0.3 dB MAX
POTS Return Loss	300 Hz to 500 Hz / 2.0 kHz to 3.4 kHz	14 dB MIN
	500 Hz to 2.0 kHz	18 dB MIN
Metering Pulse insertion loss	12KHz and 16KHz	3dB MAX
Group Delay	200 Hz to 3.4 kHz	150uS MAX (Typical 65uS)
Longitudinal Balance	50 Hz to 600 Hz / 3.4 kHz to 30 kHz	40 dB MIN
	600 Hz to 3.4 kHz / 30 kHz to 1.1 MHz	46 dB MIN
	1.1 MHz to 30 MHz	30 dB MIN
xDSL Isolation	30 kHz to 30 MHz	55 dB MIN
xDSL Insertion Loss	32 kHz to 50 kHz	3.0 dB MAX
	50 kHz to 30 MHz	1.0 dB MAX
Intermodulation Distortion Attenuation	Second order / Third order	57 dB MIN / 60 dB MIN
Tip to Ring Capacitance		20 nF MIN 115 nF MAX
Tip to Ring Insulation Resistance	(measured with 250V DC)	5 MΩ MIN
DC Current		100 mA MAX
Total DC Resistance		25 Ω MAX

## Mechanical

### BX8841NL

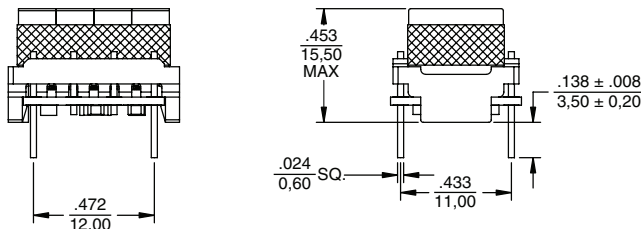


SUGGESTED BOARD LAYOUT

Weight ..... 5.5 grams  
 Tray ..... .80/tray

Dimensions: Inches  
 mm

Unless otherwise specified, all tolerances are ± .010  
 0.25



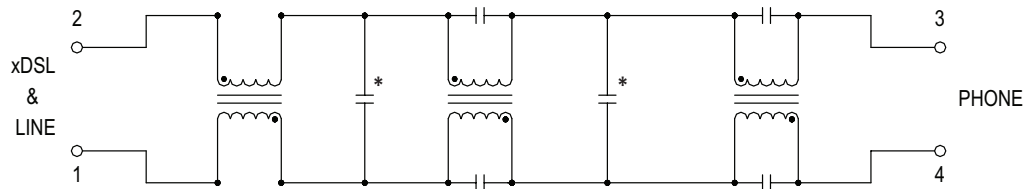
# XDSL SPLITTER FILTER MODULE

BX8841NL - SmartER series - Extended Temperature



## Schematic

**BX8841NL**



\* These capacitors are 500Vdc rated

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