



- Ⓢ POTS CPE Splitter Filter Module for standard ADSL and ADSL+ VOIP applications
- Ⓢ Complies with ITU G.992.1 Annex E2 standard for applications in Korea/Asia
- Ⓢ Footprint is compatible with a range of Pulse Splitter Filter Modules
- Ⓢ RoHS-6 compliant

Electrical Specifications @ 25°C

DC Characteristics	
DC Resistance from tip to ground and from ring to ground / tip-to-ring	$\geq 5\text{M}\Omega / \leq 25\Omega$
DC Feeding Current	0 to 100mA
DC POTS tip-to-ring voltages / Ringing Signals at 20Hz to 30Hz	0 to -60V / < 103Vrms
Voice Band Insertion Loss at 1kHz	
Short Loop / Long Loop	< 1.0dB / < 0.75dB
Voice Band Attenuation Distortion at 1kHz	
Between 0.2 and 3.4kHz (short loop) / (long loop)	+1.5 to -1.5dB / +0.5 to -1.5dB
Between 3.4 and 4.0kHz (short loop) / (long loop)	+2.0 to -2.0dB / +1.0 to -1.5dB
Voice Band Delay Distortion	
Between 0.6 and 3.2kHz (short and long loops) / Between 0.2 and 4.0kHz	< 200 μ s / < 250 μ s
Voice Band Return Loss	
ERL / SRL-L	> 6dB / > 5dB
SRL-H (single freq.)	> 3 dB (> 2 dB)
Intermodulation Distortion at -9Bm	
Second Order / Third Order	$\geq 57\text{dB} / \geq 60\text{B}$
Longitudinal Balance per IEEE Method (2-port testing technique)	
Between 200 Hz and 1 kHz / Between 1 kHz and 3 kHz	> 58 dB / > 53 dB
Capacitance	
Tip-to-ring without modem / Capacitance to ground	20 to 115nF / < 1.0nF
DSL Stop Band Attenuation with input level of 10dBm	
Between 32 and 300kHz / Between 300kHz and 15MHz	> 65dB / > 55dB
DSL Insertion Loss from 30kHz to 2.2MHz with input level of -10dBm	
	$\leq 0.25\text{dB}$

Notes: For VDSL2 (30MHz) compatible version, refer to BX8214V.

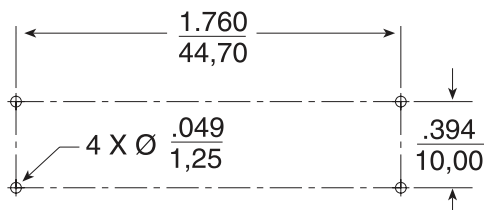
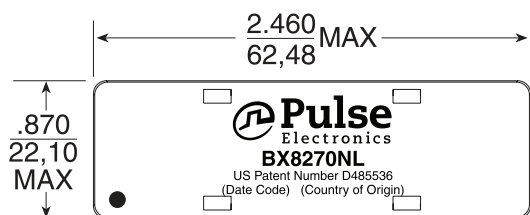
ADSL POTS CPE Splitter

BX8270NL

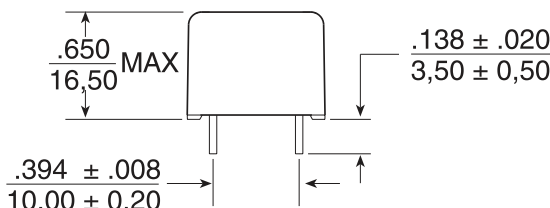
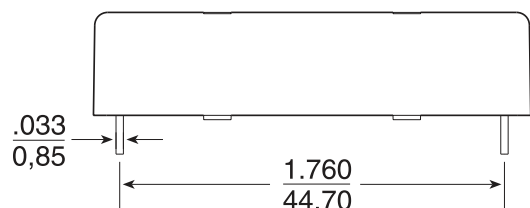
Smart Series

Mechanical

BX8270NL



SUGGESTED BOARD LAYOUT



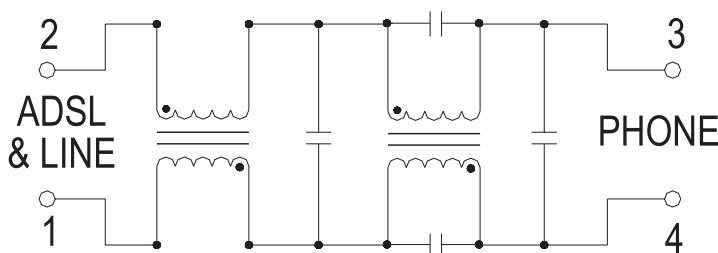
Weight15 grams

Tray35/tray

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0,25}$

Schematic



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