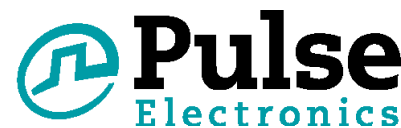


ADSL POTS CPE Splitter

BX8296NL

Smart Series



- POTS CPE Splitter Filter Module for standard ADSL and ADSL2+ VOIP applications
- Complies with ANSI T1.421 standard for applications in North America
- Footprint is compatible with a range of Pulse Splitter Filter Modules
- RoHS-6 compliant

Electrical Specifications @ 25°C

DC Characteristics	
Network port at 20mA	$\leq 25\Omega$
Tip and Ring to Ground at $\leq 100\text{dc}$ / $\geq 100\text{Vc}$ and $\leq 200\text{Vdc}$	$>10\text{M}\Omega$ / $>30\text{k}\Omega$
Operating Current	
	5 to 90mA
Operating Voltages	
Network tip to ring	0 to -80Vdc
Network tip to ring level with ringing signal of 17 to 23Hz and 40 to 106Vrms	-20 to -80Vdc
On-hook Voice Band Insertion Loss	
Single filter / With 5 filters	-0.5dB to 1.5dB / -1.0dB to 6.5dB
On-hook Voice Band Insertion Loss Distortion	
Single filter, 200 to 1000Hz / With 5 filters	-1.5dB to 1.5dB / -5.5dB to 2.0dB
Single filter, 1 to 2.8kHz / With 5 filters	-1.5dB to 1.5dB / -2.0dB to 2.0dB
On - or Off - hook Envelope Delay 300Hz - 2800Hz	
	$<250\mu\text{s}$
Off-hook Voice Band Insertion Loss	
Single filter / With 5 filters	-0.5dB to 1.5dB / -1.0dB to 6.5dB
Off-hook Voice Band Insertion Loss Distortion	
Single filter, 200 to 3400Hz / With 5 filters	-1.0dB to 0.5dB / -1.5dB to 2.5dB
Single filter, 3.4 to 4kHz / With 5 filters	-1.5dB to 1.0dB / -2.0dB to 3.25dB
Off-hook impedance distortion	
Phone Port: SRL Low / ERL / SRL High	$>13\text{dB}$ / $>9\text{dB}$ / $>3\text{dB}$
Network Port: SRL Low / ERL / SRL High	$>12\text{dB}$ / $>10\text{dB}$ / $>5\text{dB}$
Inter-Modulation Distortion Second and Third order products	
	$>60\text{dB}$
On-hook High Band Stopband Attenuation	
From 25 to 50kHz and from 50kHz to 12MHz, between 20 and 90mA	$>12\text{dB}$
Off-hook High Band Stopband Attenuation	
From 25 to 50kHz, between 20 and 90mA / between 7 and 20mA	$>21\text{dB}$ / $>13\text{dB}$
From 50 to 12kHz, between 20 and 90mA / between 7 and 20mA	$>25\text{dB}$ / $>22\text{dB}$
Bridging Loss	
Single filter, 25 kHz to 1.2MHz / With 5 filters	$<0.5\text{dB}$ / $<1.25\text{dB}$
Single filter, 25 kHz to 1.2MHz / With 5 filters	$<3.0\text{dB}$ / $<4.0\text{dB}$

USA 858 674 8100

Germany 49 7032 7806 0

Singapore 65 6287 8998

Shanghai 86 21 62787060

China 86 755 33966678

Taiwan 886 3 4356768

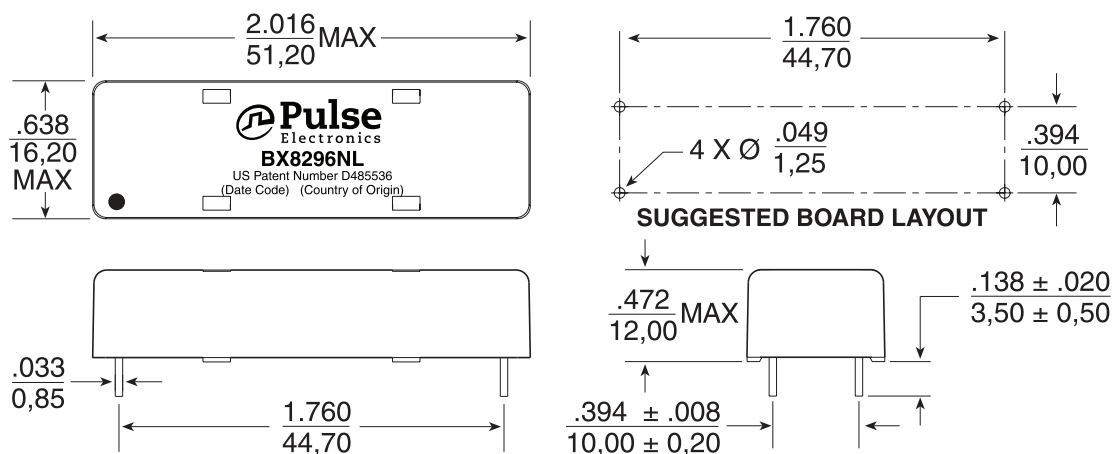
ADSL POTS CPE Splitter

BX8296NL

Smart Series

Mechanical

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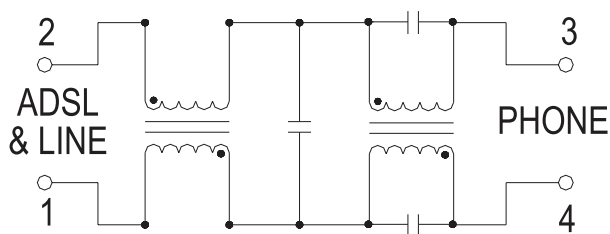
Weight15 grams

Tray35/tray

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

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

Schematic



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