

XDSL SPLITTER FILTER MODULE

B8859NL

SmartER series



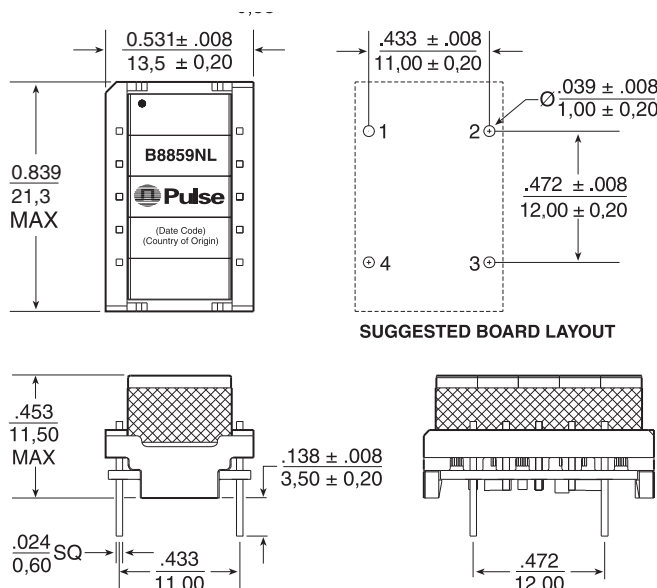
-  POTS CO splitter for standard ADSL / VDSL2 applications
-  LPF compliant with ETSI complex impedance ($Z_L = 270 \Omega + 750 \Omega/150 \text{ nF}$), and option A of ETSI specification TS 101-952-1 v1.1.1, and with the optional requirement, relative to metering pulse at 12 kHz (Clause 6.7)
-  Part of a standard series which has footprint compatibility
-  For ADSL, ADSL2+, VDSL and VDSL2 applications
-  Compliant with Broadband Forum TR-127 standard for VDSL2 applications
-  Patented technology US7598837, US7598839, CN1667763, EP1644943, TWI316724, CA2531599

Electrical Specifications @ 25°C

PARAMETER	FREQUENCY	
POTS Impedance	100 Hz to 4 kHz	$270 \Omega + 750 \Omega / 150 \text{ nF}$
POTS Insertion Loss	1 kHz	1 dB MAX
POTS Insertion Loss Distortion relative to 1 kHz	200 Hz to 4 kHz	1 dB MAX
POTS Return Loss	200 Hz to 3.4k Hz 3.4k Hz to 4 kHz	12 dB MIN 8 dB MIN
POTS Group Delay	200 Hz to 4 kHz	200 μs MAX
Longitudinal Balance	50 Hz to 600 Hz 600 Hz to 3.4 kHz 3.4 kHz to 4 kHz	40 dB MIN 46 dB MIN 40 dB MIN
xDSL Insertion Loss	32 kHz to 30 MHz	55 dB MIN
DC Current		80 mA MAX
Metering Pulse	12 kHz	3 dB MAX
Total DC Resistance		50 Ω MAX

Mechanical

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SUGGESTED BOARD LAYOUT

Weight 5.0 grams
 Tray80/tray
 Dimensions: $\frac{\text{Inches}}{\text{mm}}$
 Unless otherwise specified, all
 tolerances are $\pm \frac{.010}{0.25}$

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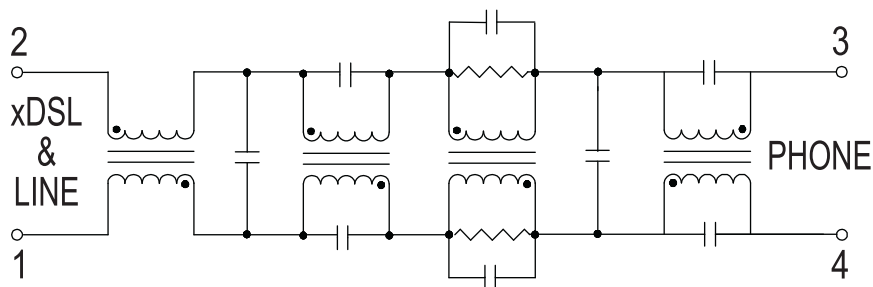
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Schematic

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