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For Use in ADSL POTS Low Pass Filters





Excellent longitudinal balance

Inductors also available in surface mount packages

Customized inductance values available

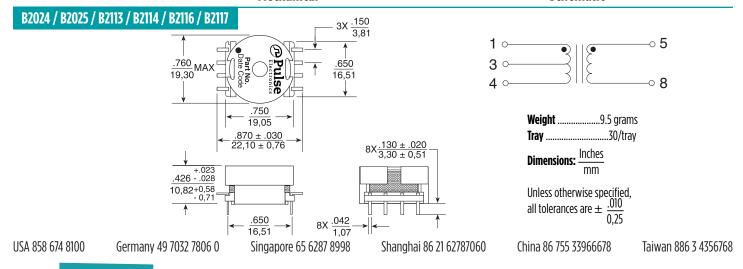
 Inductance is stable within ±10% with DC current from 0 to 100mA

Electrical Specifications @ 25°C – Operating Temperature –40°C to +125°C										
RoHS-5 Compliant Part No.	RoHS-6 Compliant Part No.	Inductance (each winding) (mH)	DC Resistance (each winding) $(\Omega \text{ MAX})$	Isolation Volage (between windings) (Vrms)	Function	Mounting				
B2005	B2005NL	9.0 ± 30%	0.60	1500	Common Mode Choke	THT				
B2013 ³	B20013NL ³	9.0 ± 30%	1.00	1500	Common Mode Choke	SMT				
B2023	-	6.0 ± 5%	4.00	1500	Coupled Inductor for POTS Low Pass Filter	THT				
B2024	-	4.0 ± 5%	3.00	1500	Coupled Inductor for POTS Low Pass Filter	THT				
B2025	-	3.0 ± 5%	2.50	1500	Coupled Inductor for POTS Low Pass Filter	THT				
B2026	-	10.0 ± 5%	4.50	1500	Coupled Inductor for POTS Low Pass Filter	THT				
B2086 ³	B2086NL ³	4.0 ±10%	3.60	1250	Coupled Inductor for POTS Low Pass Filter	SMT				
B2113	-	2.25 ± 10%	2.25	500	Coupled Inductor for POTS Low Pass Filter	THT				
B2114	-	1.425 ± 10%	2.25	500	Coupled Inductor for POTS Low Pass Filter	THT				
B2116	-	1.65 ± 10%	2.25	500	Coupled Inductor for POTS Low Pass Filter	THT				
B2117	-	1.35 ± 10%	2.25	500	Coupled Inductor for POTS Low Pass Filter	THT				
B2118	-	0.8 ± 10%	2.00	500	Coupled Inductor for POTS Low Pass Filter	THT				
B8098 ³	B8098NL ³	4.0 ± 10%	3.60	1250	Coupled Inductor for POTS Low Pass Filter	SMT				

1. 100kHz, 20mVrms, 2. 1.0kHz, 1.0Vrms, 0 mA (each winding). 3. For Tape & Reel packaging, add the suffix "T" to this part number (B2013T or B2013NLT)

Notes: The B2005 and B2013 are common mode chokes that reduce common mode voltages in the low frequency range that may be caused by telephone ringing signals or by interference from radio transmitters in the ADSL frequency range. The chokes are also designed to accommodate DC currents up to 100mA.

Mechanical Schematic



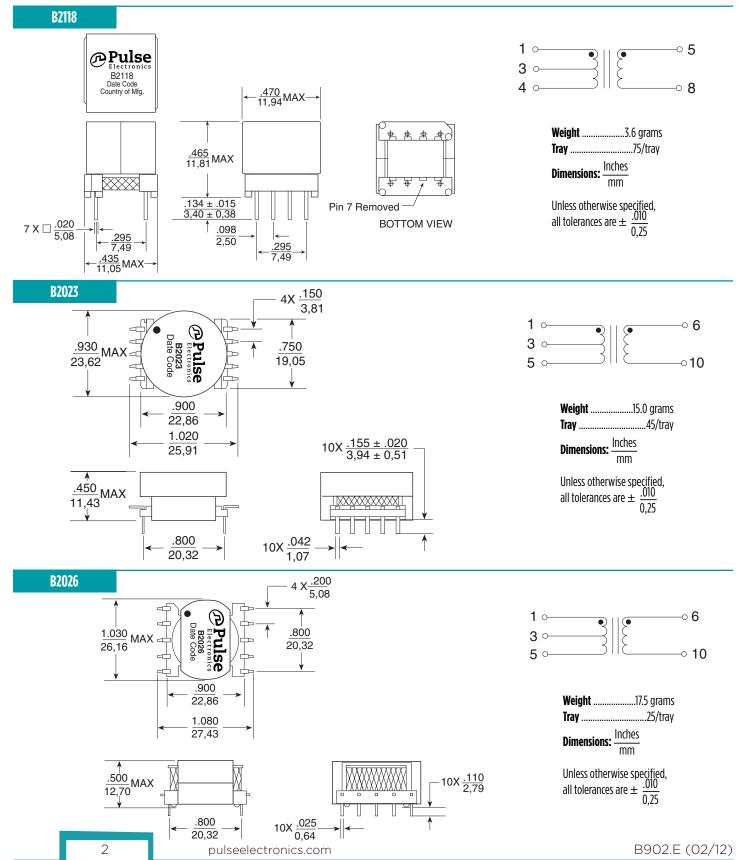
pulseelectronics.com B902.E (02/12)

For Use in ADSL POTS Low Pass Filters





Schematics



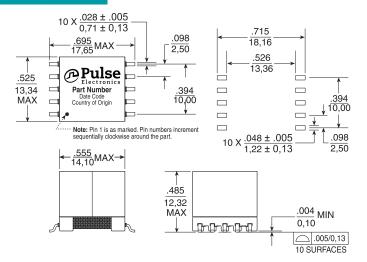
For Use in ADSL POTS Low Pass Filters

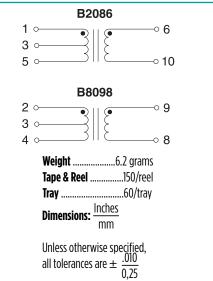


Mechanicals

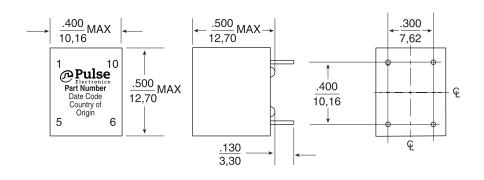
Schematics

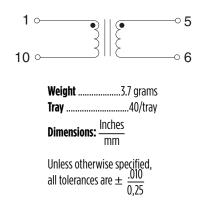
B2086 / B2086NL / B8098 / B8098NL



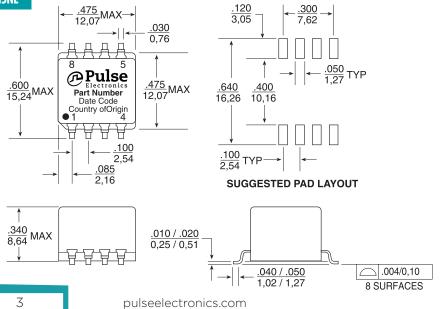


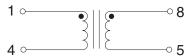
B2005 / B2005NL





B2013 / B2013NL





Weight	2.5 grams		
Tape & Reel	250/reel		
Tray	40/tray		
Dimensions:	Inches		
Dilliensions.	mm		

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

For Use in ADSL POTS Low Pass Filters

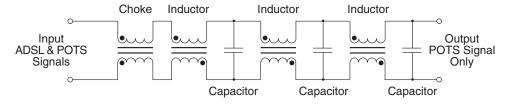
Performance Description

The series of coupled inductors shown on this data sheet are current and temperature, high self-resonant frequency, low ideal for use in Asymmetrical Digital Subscriber Line (ADSL) applications where a low pass filter is required to separate the voice frequencies from the data frequencies that are carried on an ADSL line. In spite of their small footprint and low profile, these coupled inductors provide excellent electrical performance. They have stable inductance with varying DC current and temperature, high self-resonant frequency, low coupling capacitance, and excellent balance. The common mode chokes were developed to reduce common mode voltages in the low frequency range that is used for voice transmission. The chokes are also designed to accommodate DC currents up to 100 mA.

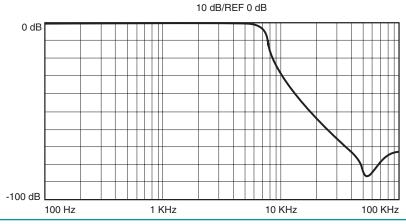
Application Circuit

The following schematic depicts a typical LC filter that incorporates the use of a common mode choke in addition to the LC network. As shown in the frequency response graph below, at low frequencies, the amplitude of the output signal is roughly equal to the amplitude of the

input signal. At higher frequencies, the amplitude of the output decreases. Thus, the network passes low frequency voice signals with only a small degree of attenuation, while it suppresses high frequency signals and acts as a low pass filter.



Frequency Response



For More Information

101 111010 1111011114 11011									
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Fax: 858 674 8262	Fax: 49 7032 7806 135	Tel: 86 755 33966678	Tel: 86 21 62787060		,				
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B902.E (02/12)