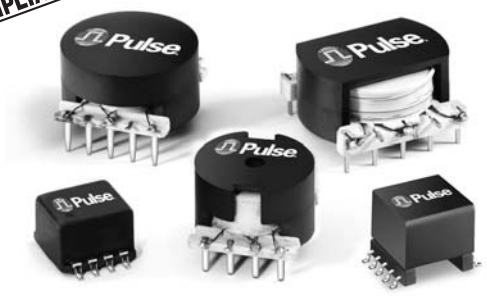
INDUCTORS AND COMMON MODE CHOKES

For Use in ADSL POTS Low Pass Filters

Pulse® A TECHNITROL COMPANY

RoHS COMPLIANT



- 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 85°C

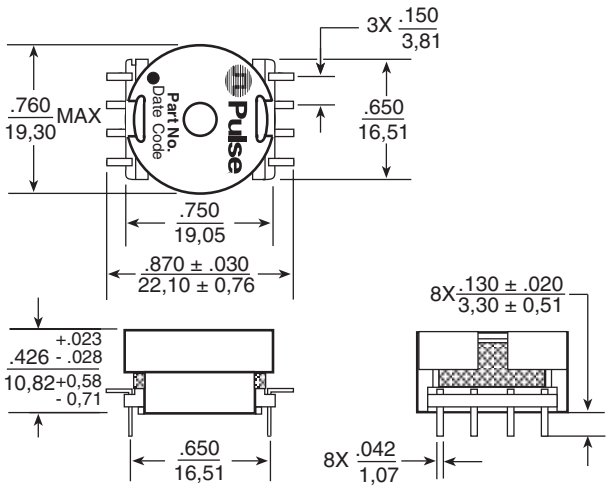
RoHS-5 Compliant Part No.	RoHS-6 Compliant Part No.	Inductance (each winding) (mH)	DC Resistance (each winding) (Ω MAX)	Isolation Voltage (between windings) (Vrms)	Function	Mounting
B2005	**B2005NL**	9.0 ±30% [1]	0.60	1500	Common Mode Choke	THT
B2013 [3]	**B2013NL** [3]	9.0 ±30% [1]	1.00	1500	Common Mode Choke	SMT
B2023	–	6.0 ±5% [2]	4.00	1500	Coupled Inductor for POTS Low Pass Filter	THT
B2024	–	4.0 ±5% [2]	3.00	1500	Coupled Inductor for POTS Low Pass Filter	THT
B2025	–	3.0 ±5% [2]	2.50	1500	Coupled Inductor for POTS Low Pass Filter	THT
B2026	–	10.0 ±5% [2]	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

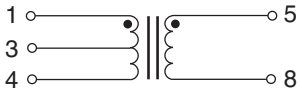
1. 100kHz, 20mVrms. **2.** 1.0kHz, 1.0mVrms, 0 mA to 100 mA (each winding). **3.** For Tape & Reel packaging, add the suffix **"T"** to this part number (B2013**T** or B2013NL**T**)
NOTE: The B2005 and B2013 are common mode chokes that reduce common mode voltages in the low frequency range that may be 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

B2024/B2025/B2113/B2114/B2116/B2117





Weight . . . . . .9.5 grams
Tray 30/tray
Dimensions: Inches / mm
Unless otherwise specified, all tolerances are ± .010 / 0,25

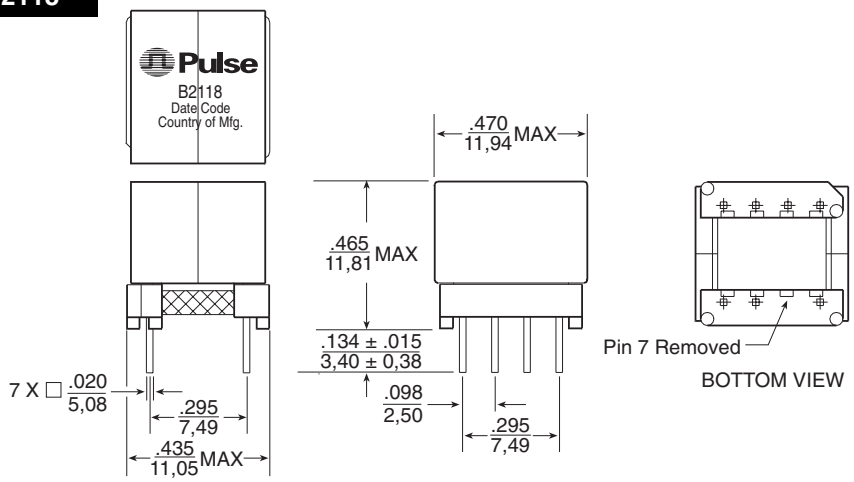
INDUCTORS AND COMMON MODE CHOKES
For Use in ADSL POTS Low Pass Filters

Pulse® A TECHNITROL COMPANY

Mechanicals

Schematics

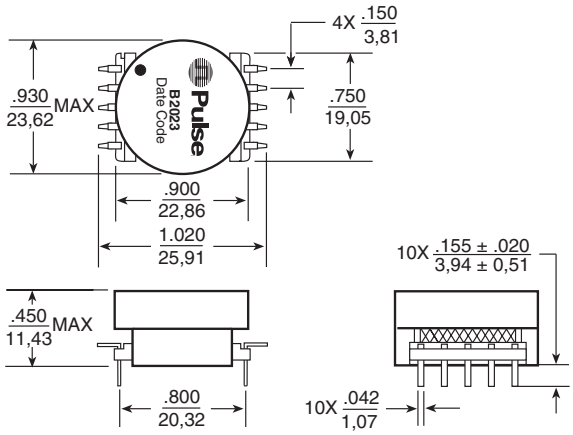
B2118

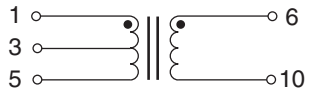




Weight . . . . . .3.6 grams
Tray 75/tray
Dimensions: Inches / mm
Unless otherwise specified, all tolerances are ± .010 / 0,25

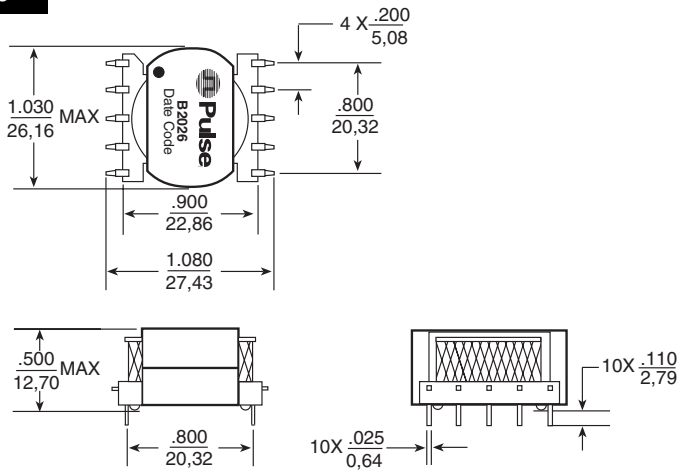
B2023

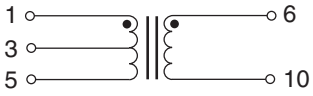




Weight . . . . . .15.0 grams
Tray 45/tray
Dimensions: Inches / mm
Unless otherwise specified, all tolerances are ± .010 / 0,25

B2026





Weight . . . . . .17.5 grams
Tray 25/tray
Dimensions: Inches / mm
Unless otherwise specified, all tolerances are ± .010 / 0,25

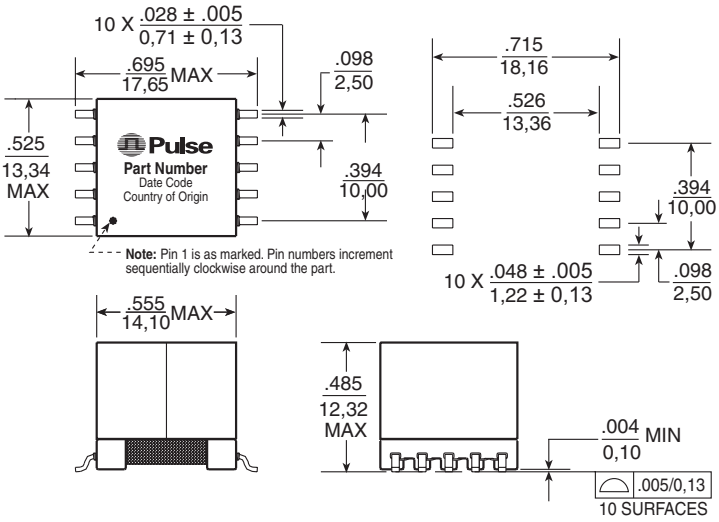
INDUCTORS AND COMMON MODE CHOKES
For Use in ADSL POTS Low Pass Filters

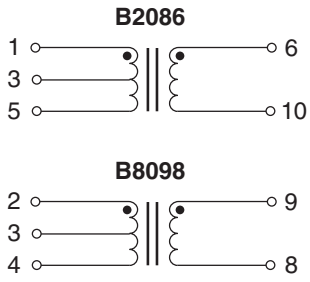
Pulse® A TECHNITROL COMPANY

Mechanicals

Schematics

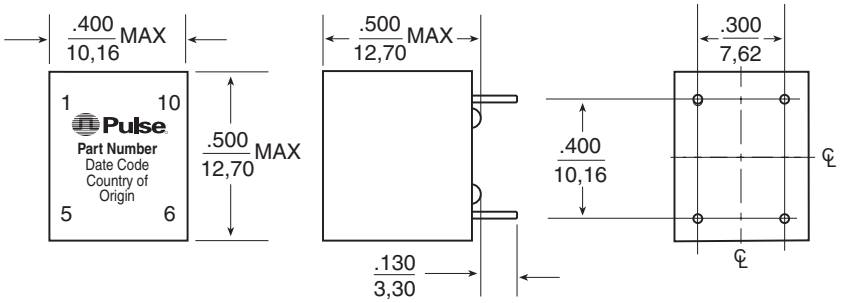
B2086 / B2086NL / B8098 / B8098NL

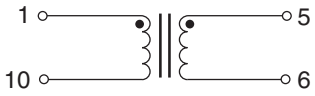




Weight . . . . . .6.2 grams
Tape & Reel 150/reel
Tray 60/tray
Dimensions: Inches / mm
Unless otherwise specified, all tolerances are ± .010 / 0,25

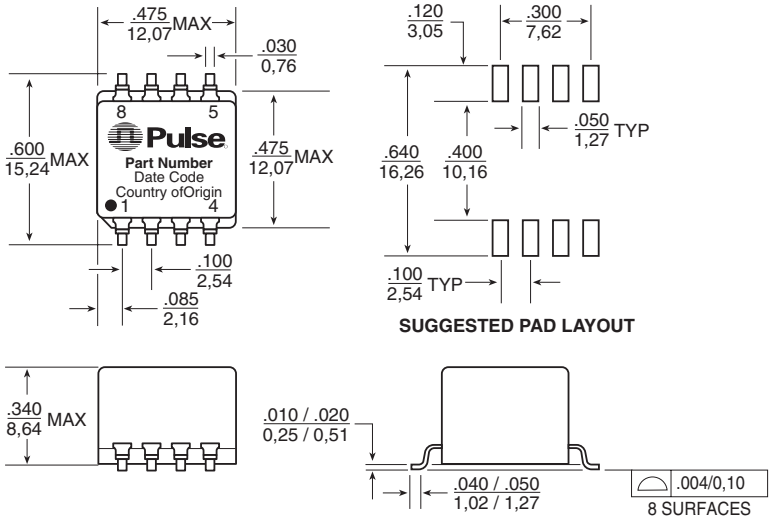
B2005 / B2005NL

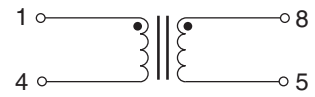




Weight . . . . . .3.7 grams
Tube 40/tube
Dimensions: Inches / mm
Unless otherwise specified, all tolerances are ± .010 / 0,25

B2013 / B2013NL





Weight . . . . . .2.5 grams
Tape & Reel 250/reel
Tube 40/tube
Dimensions: Inches / mm
Unless otherwise specified, all tolerances are ± .010 / 0,25

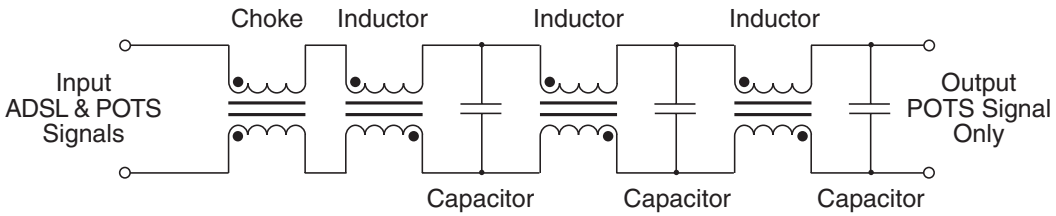
INDUCTORS AND COMMON MODE CHOKES
For Use in ADSL POTS Low Pass Filters

Performance Description

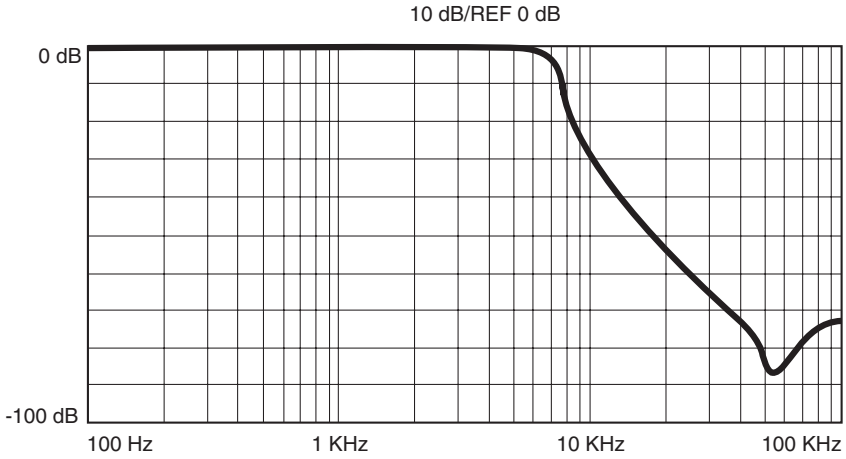
The series of coupled inductors shown on this data sheet arecurrent and temperature, high self-resonant frequency, low ideal for use in Asymmetrical Digital Subscriber Line (ADSL)coupling capacitance, and excellent balance.
applications where a low pass filter is required to separate the The common mode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

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



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Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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