

Inductors And Common Mode Chokes

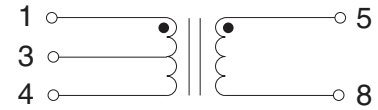
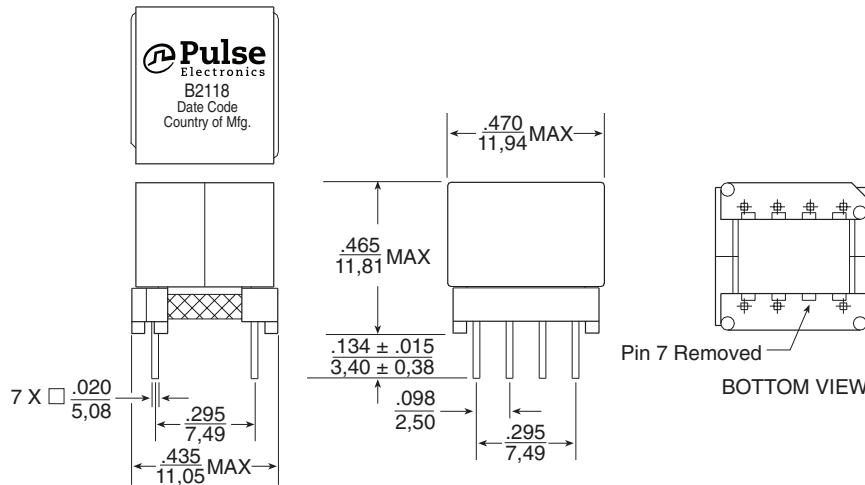
For Use in ADSL POTS Low Pass Filters



Mechanicals

Schematics

B2118



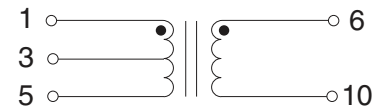
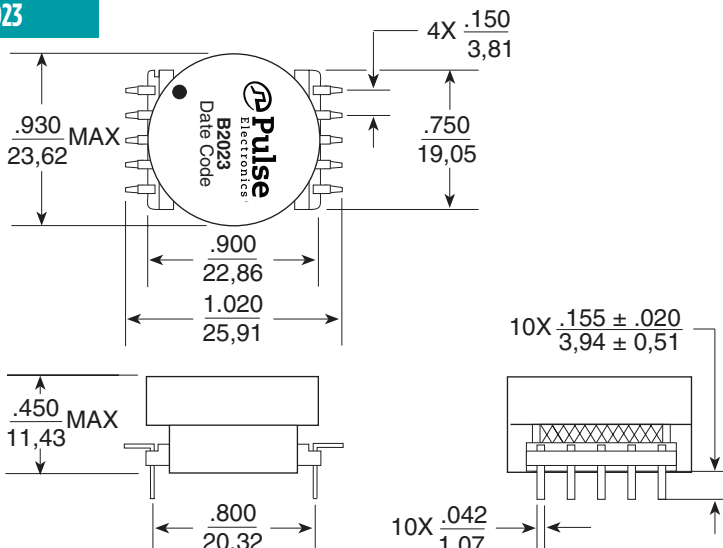
Weight3.6 grams

Tray75/tray

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

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

B2023



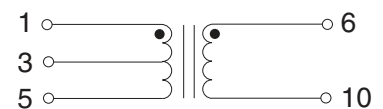
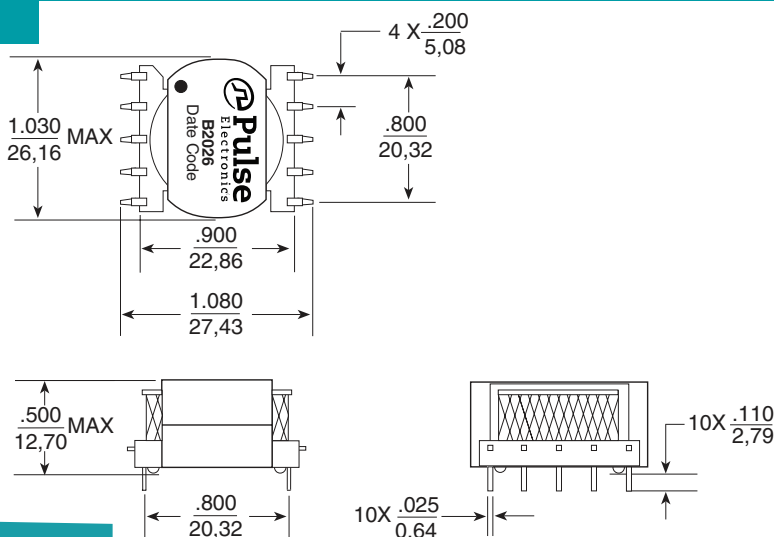
Weight15.0 grams

Tray45/tray

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

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

B2026



Weight17.5 grams

Tray25/tray

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

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

Inductors And Common Mode Chokes

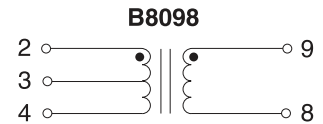
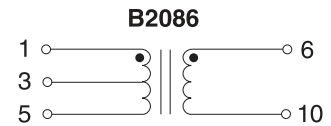
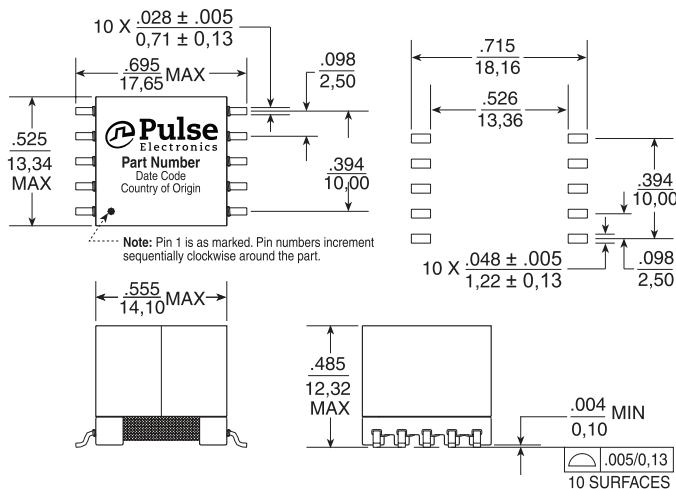
For Use in ADSL POTS Low Pass Filters



Mechanicals

Schematics

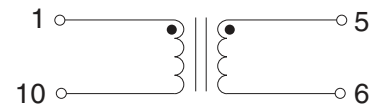
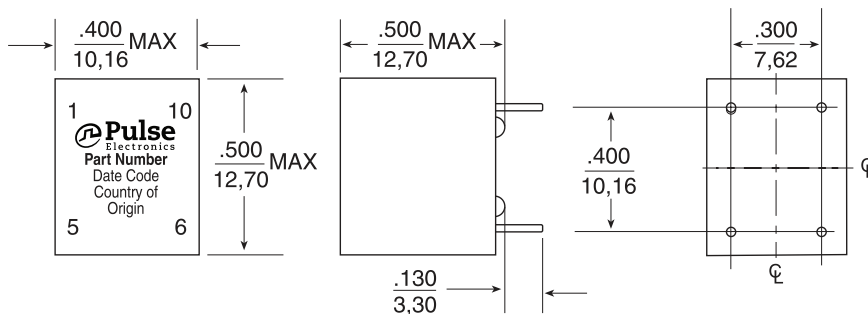
B2086 / B2086NL / B8098 / B8098NL



Weight6.2 grams
Tape & Reel150/reel
Tray60/tray
Dimensions: $\frac{\text{Inches}}{\text{mm}}$

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

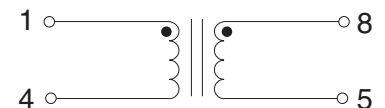
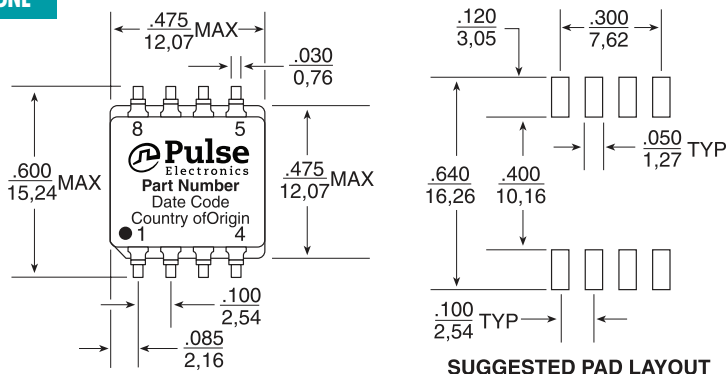
B2005 / B2005NL



Weight3.7 grams
Tray40/tray
Dimensions: $\frac{\text{Inches}}{\text{mm}}$

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

B2013 / B2013NL



Weight2.5 grams
Tape & Reel250/reel
Tray40/tray
Dimensions: $\frac{\text{Inches}}{\text{mm}}$

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

Inductors And Common Mode Chokes

For Use in ADSL POTS Low Pass Filters

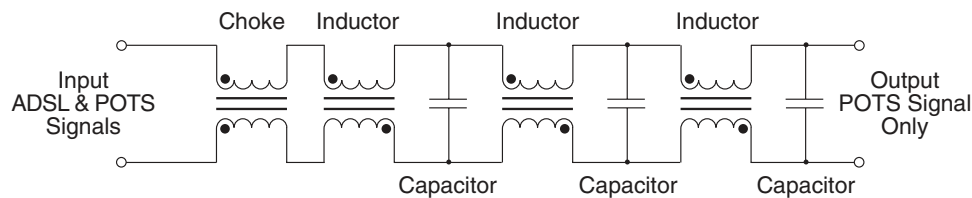
Performance Description

The series of coupled inductors shown on this data sheet 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.

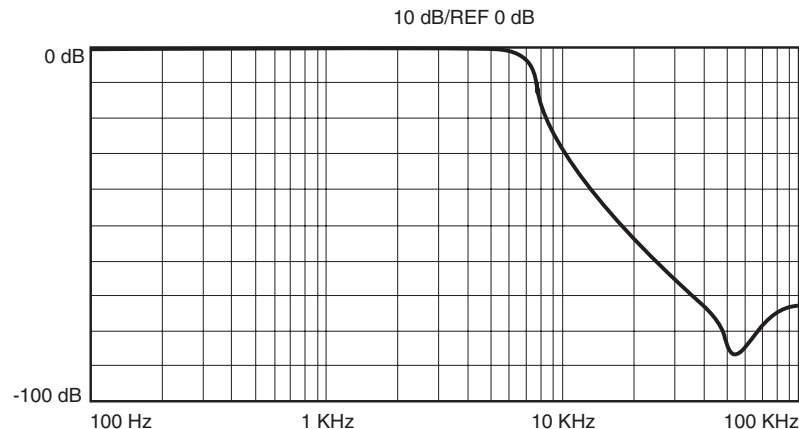
Application Circuit

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



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