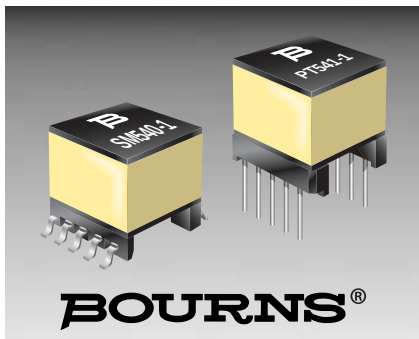




Features

- For use with Alcatel's MTK-20140 ADSL chipset
- Excellent Total Harmonic Distortion (THD) Performance
- Both SMT and Thru-Hole package version
- Small size

- Operating temperature -40 °C to +85 °C
- Designed to meet UL1950 and EN60950 supplementary insulation requirements for operating voltages up to 250 Vrms

Applications

- ADSL - Alcatel MTK20140

SM540-1 & PT541-1 ADSL Line Transformers

Electrical Specifications @ 25 °C

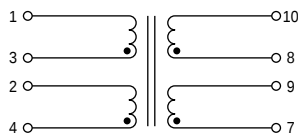
Turns Ratio (1-4):(10-7) (line to chip)	
SM540-1	1:1 ±2 %
PT541-1	2:1 ±2 %
OCL @ 10 kHz, 0.1 V	
(1-4) with (2-3) shorted	
SM540-1	480 µH ±10 %
PT541-1	410 µH ±10 %
Leakage Inductance @ 300 kHz 0.1 V	
(1-4) with (2-3), (7-10), (8-9) shorted	
SM540-1	10.0 µH max.
PT541-1	6.5 µH max.
Longitudinal Balance	
30 kHz to 1.1 MHz	-40 dB min.
Insertion Loss	
@ 100 kHz and 1.1 MHz	<1.0 dB
Isolation Voltage	1500 Vrms max.
DC Resistance	
(1-4) with (2-3) shorted	
SM540-1	1.0 Ω max.
PT541-1	0.6 Ω max.
THD Linearity	
SM540-1 @ 10 kHz (min.)	-72 dB typ.
PT541-1 @ 20 kHz (min.)	-72 dB typ.
Application	
SM540-1	CPE
PT541-1	CO

Packaging Specifications

SM540-1*	200 pcs./reel
PT541-1	60 pcs./tray

*"E" suffix at end of part number designates tape & reel packaging, e.g. SM540-1E.

Electrical Schematic



Reliable Electronic Solutions

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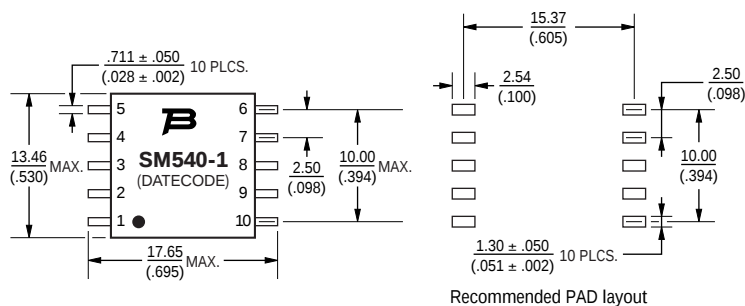
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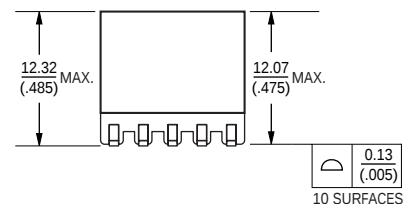
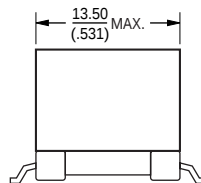
www.bourns.com

Product Dimensions

SMT

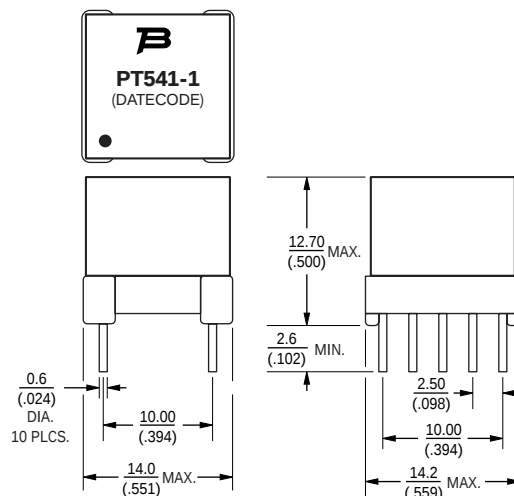


Recommended PAD layout



10 SURFACES

THT



DIMENSIONS ARE: $\frac{\text{MM}}{(\text{INCHES})}$

TOLERANCE: $\pm \frac{0.25}{(.010)}$

Mouser Electronics

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