



**PT313 Series POT23/11 ADSL Line Transformers**  
For Alcatel, Globespan, Motorola and Analog Device Chipsets

- Designed to meet ANSI and ETSI requirement
- Excellent THD performance
- Up to 100mA DC Current Capability
- Operating Temperature –45 to +85°C.
- Custom Design for Other Pinouts and
- Dimensions are available



**Electrical Specification 1:**

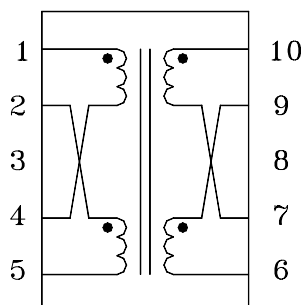
Part Number	Chipset Maker	Chipset	Application	T/R Line:Chip +/-3%	Line Side Inductance	Leakage Inductance (uH, Typ.)	Line Side DCR (Ω, Max.)	Chip Side DCR (Ω, Max.)
PT31301	Alcatel	MTK20140	CPE	1:1	440uH +/-5%	15	0.32	2.4
PT31302	Globespan	ADSL	CO	1:1.4	940uH +/-10%	10	2.4	2.4
PT31303	Globespan	ADSL	CPE	1:1	410uH +/-10%	10	1.6	1.6

**Electrical Specification 2:**

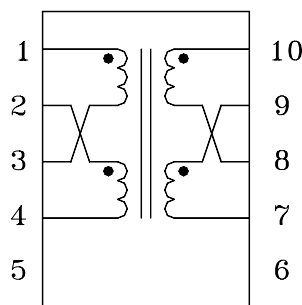
Part Number	Schematic	THD (dB Typ. @100Ω)	Insertion Loss (dB Typ.)	Longitudinal Balance (dB Typ. @100Ω)	Hipot (Vrms) (Min.)
PT31301	1	-70dB @40kHz	3dB @40k-2MHz	40dB @25k-1MHz	2000
PT31302	2	-72dB @30kHz	3dB @40k-2MHz	40dB @25k-1MHz	1500
PT31303	2	-72dB @30kHz	3dB @40k-2MHz	40dB @25k-1MHz	1500

**SCHEMATICS**

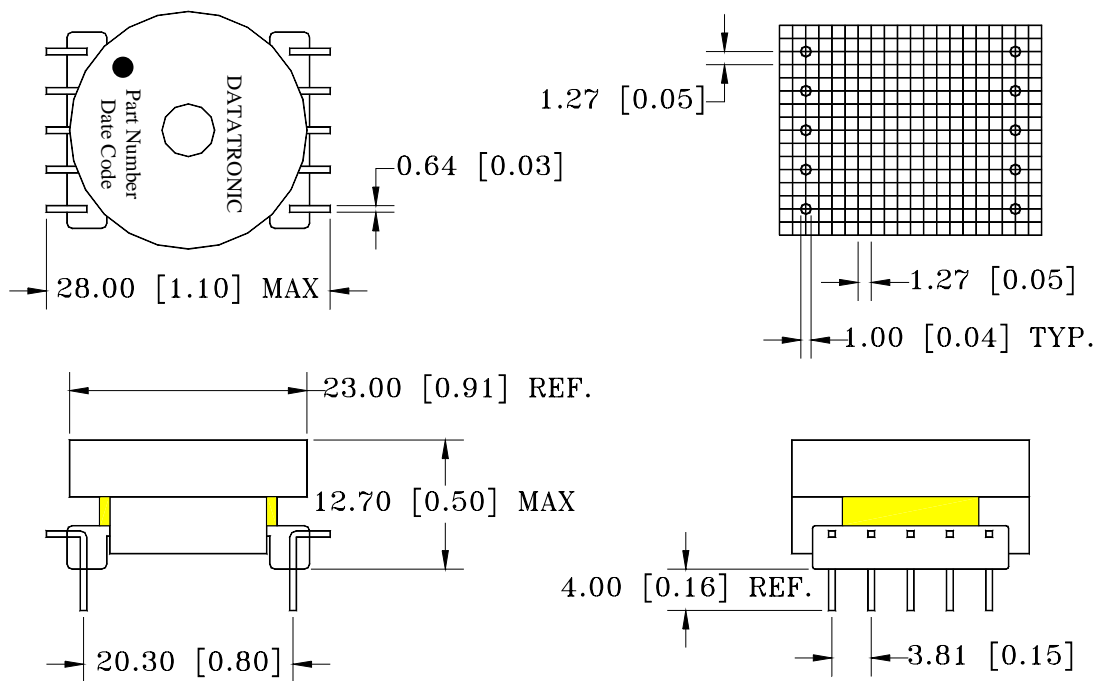
Circuit 1



Circuit 2



**MECHANICAL:**



ALL DIMENSIONS ARE IN MM [INCHES]

**Note:**

1. For non-RoHS parts replace PT prefix with 42- (e.g. PT31301 becomes 42-31301)
2. Terminal finish is compliant to RoHS requirements.

**CROSS REFERENCE:**

Datatronc	Pulse Engineering	Bel Fuse	YCL	
PT31301	B2038	0560-6600-25	PS102189	
PT31302	B2002			
PT31303	B2006			