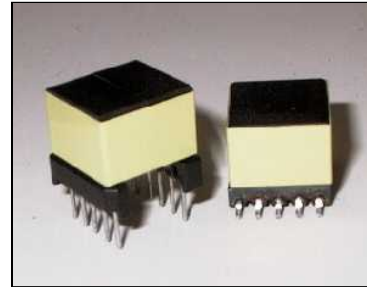


## PT314 Series EP13 ADSL Line Transformers

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



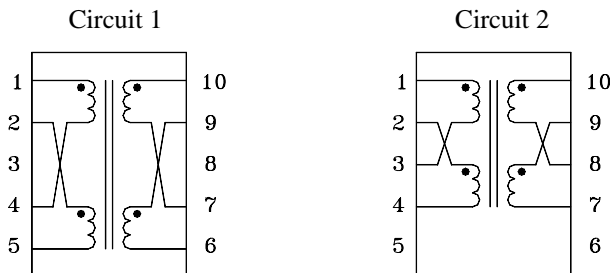
### Electrical Specification 1:

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.)
PT31401	Alcatel	MTK20140	CO	2:1	410uH +/-10%	10	0.6	
PT31402	Alcatel	MTK20140	CPE	1:1	480uH +/-10%	10	1.0	
PT31403	Analog	AD20msp910/918	CO & CPE	1:1	5.0mH +/-10%	18	3.0	3.0
PT31404	Analog	AD20msp910/918	CO & CPE	1:1	5.0mH +/-10%	18	3.0	3.0
PT31405	Analog	AD20msp930/918	CO & CPE	1:1.27	1.8mH Min.	10	2.0	2.0
PT31406	Analog	AD20msp930/918	CO & CPE	1:1.27	1.8mH Min.	10	2.0	2.0
PT31407	Motorola	MC03AX1456	CO & CPE	1.2:1	1.8mH Min.	10	1.26	1.2
PT31408	Motorola	MC03AX1456	CO & CPE	1:1.8	1.8mH Min.	10	1.26	8

### Electrical Specification 2:

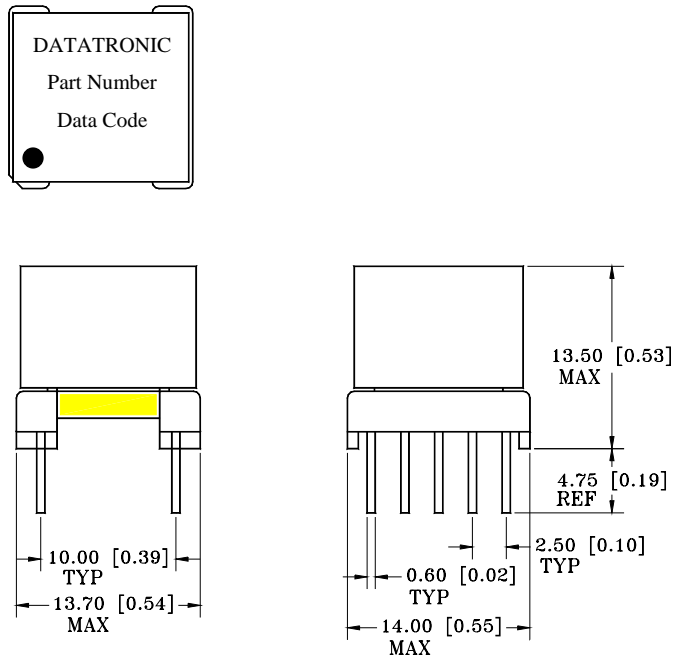
Part Number	Package	Schematic	THD (dB Typ. @100Ω)	Insertion Loss (dB Typ.)	Longitudinal Balance (dB Typ. @100Ω)	Hipot (Vrms) (Min.)
PT31401	1	2	-72dB @20KHz	1dB @25k-1MHz	40dB @25k-1MHz	1500
PT31402	2	2	-72dB @10KHz	1dB @25k-1MHz	40dB @25k-1MHz	1500
PT31403	1	2	-80dB @30kHz, -60dB @300kHz	0.5dB @100kHz	50dB @1k-1MHz	1500
PT31404	2	2	-80dB @30kHz, -60dB @300kHz	0.5dB @100kHz	50dB @1k-1MHz	1500
PT31405	1	2	-80dB @30kHz, -60dB @300kHz	0.5dB @100kHz	50dB @24k-1MHz	1500
PT31406	2	2	-80dB @30kHz, -60dB @300kHz	0.5dB @100kHz	50dB @24k-1MHz	1500
PT31407	1	2	-80dB @30kHz, -60dB @300kHz	0.5dB @100kHz	50dB @20k-1MHz	1500
PT31408	1	2	-80dB @30kHz, -60dB @300kHz	0.5dB @100kHz	50dB @20k-1MHz	1500

### SCHEMATICS



**MECHANICAL:**

FIGURE 1

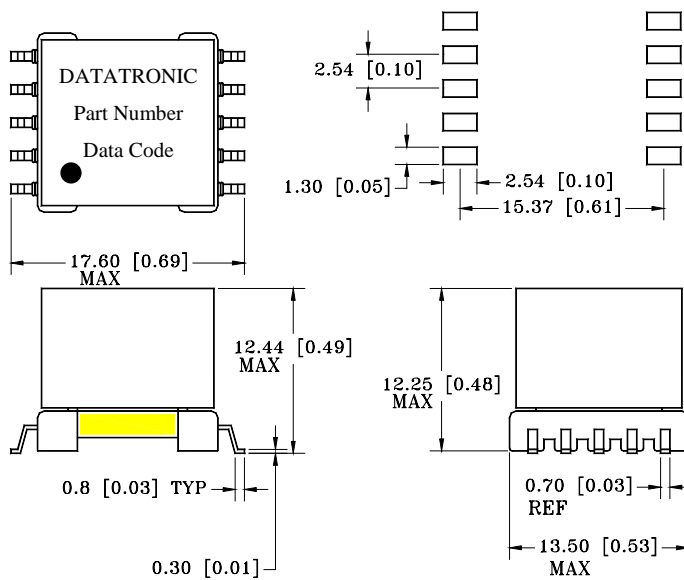


ALL DIMENSIONS ARE IN MM [INCHES]

**Note:**

1. For non-RoHS parts replace PT prefix with 42- (e.g. PT31401 becomes 42-31401)
2. Terminal finish is compliant to RoHS requirements.

FIGURE 2



**Note:**

1. For non-RoHS parts replace PT prefix with 42- (e.g. PT31402 becomes 42-31402)
2. Terminal finish is compliant to RoHS requirements. Solder in accordance with J-STD-020C.

**CROSS REFERENCE:**

Datatronc	Pulse Engineering	Bel Fuse	PCA	YCL
PT31401	B2068			
PT31402	B2064	S560-6600-40		
PT31403	B2031		EPB5019	PS102048
PT31404	B2032	S560-6600-30		PS107705
PT31405	B2104			
PT31406	B2105			
PT31407				
PT31408				