

# T3/DS3/E3/STS-1 TRANSFORMERS

## EXTENDED TEMPERATURE RANGE



### AT310XS Series



The AT310XS series of transformers was developed to be used for T3 or DS3 links as either receive and transmit transformers.

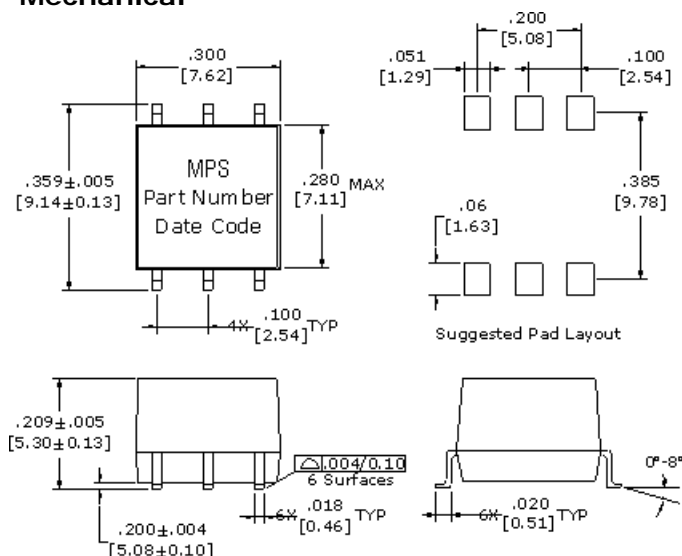
These transformers carry bit rates of 44.736 Mbps and B3Zs coding schemes on coax cable. It complies with the pulse templates of CCITT G.703 as well as ATT T.A.34. Because of its high bandwidth, these transformers are also suitable for E3 interface at 34.368 Mbps with HDB3 coding and even finding applications in the STS-1 at 51.84 Mbps.

The operating temperatures of these transformers meet industrial standards of -40° C to +85° C.

Part Number	Turns Ratio ± 2%	OCL Primary @ 25°C (μH Min. )	OCL Primary @ -40°C (μH Min. )	LL (μH Max.)	CW (pF Max.)	Bandwidth 75 Ohms System (Mhz Typ.)	Isolation Voltage (Vrms Min.)	Schematic	Primary Pins
AT3101S	1:1	100	40	0.110	10	0.200 ~ 340	1500	B	1-3
AT3102S	1:2CT	40	19	0.110	12	0.250 ~ 500	1500	A	4-6
AT3103S	1:1	100	40	0.110	10	0.200 ~ 340	1500	B	4-6
AT3104S	1:2CT	40	19	0.110	12	0.250 ~ 500	1500	A	4-6

**Notes:** 1) Add suffix "T" after the part number for tape and reel package.  
2) Other version available with alternate pinout configurations. Contact MPS Engineering Team.

### Mechanical



Dimensions: in/mm.  
Tolerance: ±.010/0.25 unless otherwise specified.

### Schematics

