



Feature

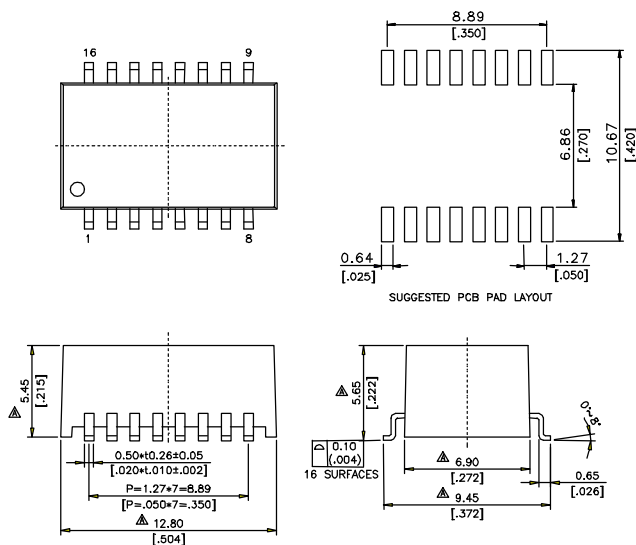
- ◆ Designed to meet IEEE802.3u requirement.
- ◆ Turn ratio 1:1 on transmitter side
- ◆ "G" stand for RoHS.
- ◆ Primary inductance 350μH min. with 8mA DC Bias
- ◆ Designed to meet IR 260°C peak requirement.

Specifications @ 25°C

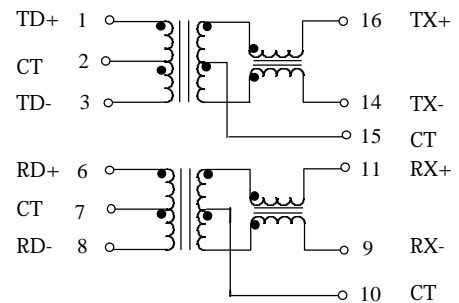
Parameter	Condition	Min.	Typ.	Max.	Unit
Inductance	@100KHz,100mV, Pin(16-14) & Pin(11-9)	350	*Note 1		μH
Turn Ratio	Pin(1-3) : (16-14)		1 : 1		±5%
	Pin(6-8) : (11-9)		1 : 1		±5%
Leakage inductance				0.5	μH
Interwinding Capacitance				28	pF
DCR	Pin(1-3) & Pin(6-8)			0.7	Ω
	Pin(16-14) & Pin(11-9)			1.1	Ω
Insertion Loss	@ 1-100MHz			-1.0	dB
Return Loss	@ 1-30MHz	-16			dB
	@ 30-60MHz		*Note 2		dB
	@ 60-80MHz	-10			dB
Cross Talk	@ 1-60MHz	-40			dB
	@ 60-100MHz	-38			dB
CMRR	@ 1-60MHz	-45/-40			dB
	@ 60-100MHz	-40/-35			dB
Voltage Isolation		1500			Vrms

Note 1: measured at 8mA_{dc} over operating temperature 0~70°C
 Note 2: Greater than 16-20 log(f/30 MHz)dB

Dimension

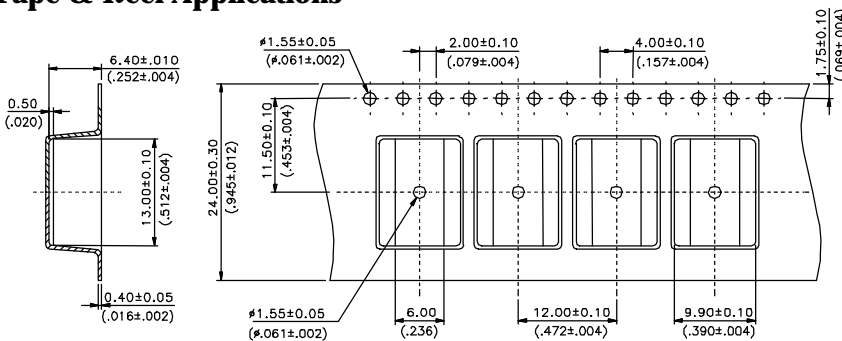


Schematic



Unless otherwise specified, all tolerances are mm(inch) ± 0.25(0.01)

Tape & Reel Applications



Weight 0.8 grams typ
 Tape & Reel 750/reel
 Tube 37/tube

RDPS-PH283(R1)07/11/2005

Test Requirements and Procedures

No	Item	Requirement	Test or Inspection Method
1	Examination of product	Meet requirements of product drawing	Visual, X-Ray, Microscope and so on.
2	Solderability	Max. 5% de-wetting, inspection with 10 times magnification.	After steamy 1 hrs , dip solder 260°C Duration: 2 ± 0.5 seconds. Ref: Sony Technical Standards SS-00254-1 & SS-00254-2
3	Resistance to soldering heat	No functional damage.	SMT: peak temp. 260°C Ref: Sony Technical Standards SS-00254-4 & SS-00254-5
4	Vibration	No physical damage.	Random vibration / Overall : 1.15 g rms Freq. (Hz) : 1 → 4 → 100 → 200 PSD (g ² /Hz) : 0.0001 → 0.01 → 0.01 → 0.001 Test Axis/ Time : Top / 30 mins Bottom / 10 mins X axis : 10 mins Y axis : 10 mins Ref : ISTA PROJECT 2A
5	Thermal shock	Contact resistance, Insulation resistance shall meet each specified requirement .	Molded product : - 40°C → + 125°C for 5 cycles (25 , 50 , 100 cycles for D.V.T.) Ref: MIL-STD-202 method 107
6	Temperature-humidity exposure	Contact resistance, Insulation resistance shall meet each specified requirement .	Molded product : -10°C~65°C / 95% R.H / bias 100Vdc 96 hrs(168 , 500 hrs for D.V.T) Ref: MIL-STD-202 method 103
7	High temperature exposure	Contact resistance Insulation resistance shall meet each specified requirement	Molded product : + 125°C , bias: 25 Vdc 96 hrs(168 , 500 hrs for D.V.T) Ref: MIL-STD-202 method 103