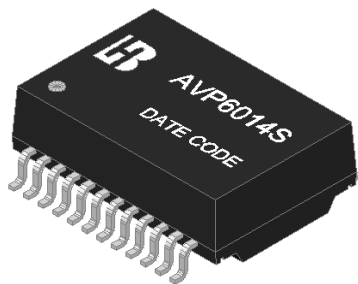


Feature



- Design for 2.5G ethernet application.
- Complying with IEEE 802.3at standard.
- POE applications with 600mA current capability.
- Pass surge 4.3KV (differential mode) .
- Complying with ROHS & Halogen Free requirements.
- Operating temperature range: 0°C to +70°C .
- Storage temperature range: -25°C to +85°C .

Electrical Specifications @ 25°C

Part Number	Turns Ratio (±5%)		OCL (uH Min) @100KHz/0.1V	L.L (uH Max)	C _{ww} (pF Max)	DCR (Ω Max)	HI-POT
	TX	RX					
AVP6014S	1CT:1CT	1CT:1CT	180	0.5	28	0.9	AC1500V/1mA

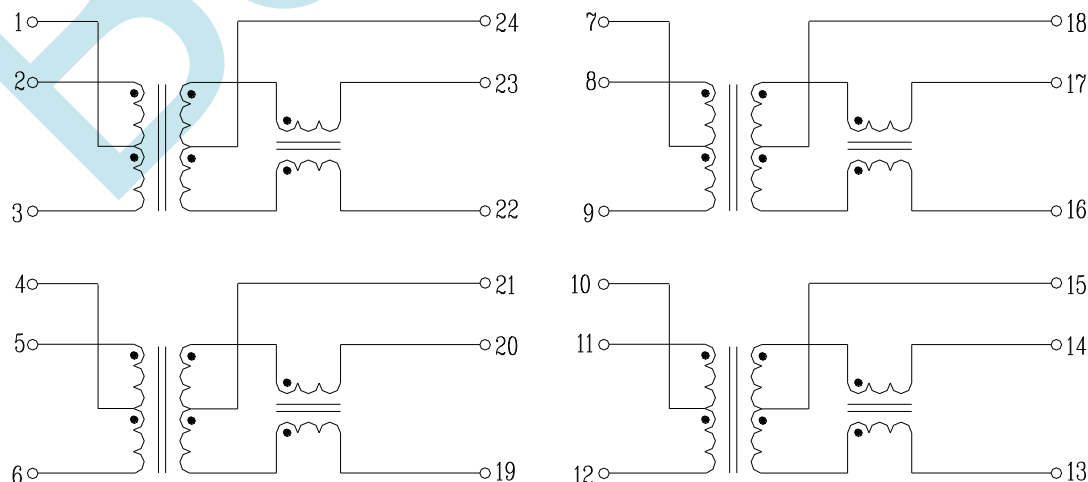
Continue

Part Number	Insertion Loss (dB Max)		Return Loss (dB Min)@Load 100Ω	
	1 ≦ f ≦ 100 MHz	100 < f ≦ 125 MHz	1 ≦ f ≦ 40 MHz	40 < f ≦ 125 MHz
AVP6014S	-1.0	-1.5	-16	-(16-10 log ₁₀ (f/40))

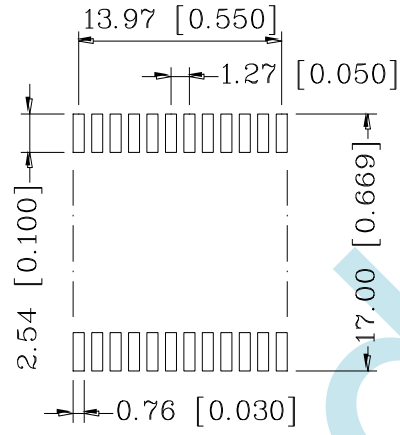
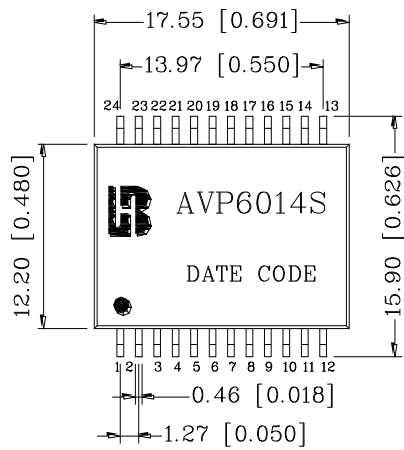
Continue

Part Number	Cross talk (dB Min)		DCMR (dB Min)		
	1 ≦ f ≦ 100 MHz	100 < f ≦ 125MHz	1 < f ≦ 30 MHz	30 < f ≦ 125 MHz	
AVP6014S	$20 \log_{10} \left[10^{\frac{35.3 - 15 \log_{10}(f/100)}{-20}} + 2 \times 10^{\frac{43 - 20 \log_{10}(f/100)}{-20}} \right]$		-30	-48	-(44-19.2 log ₁₀ (f/50))

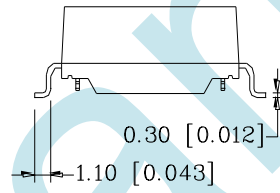
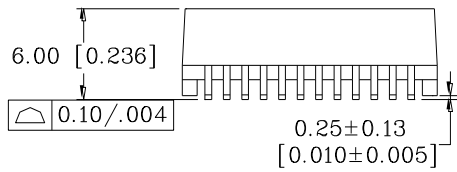
Schematic



Mechanical



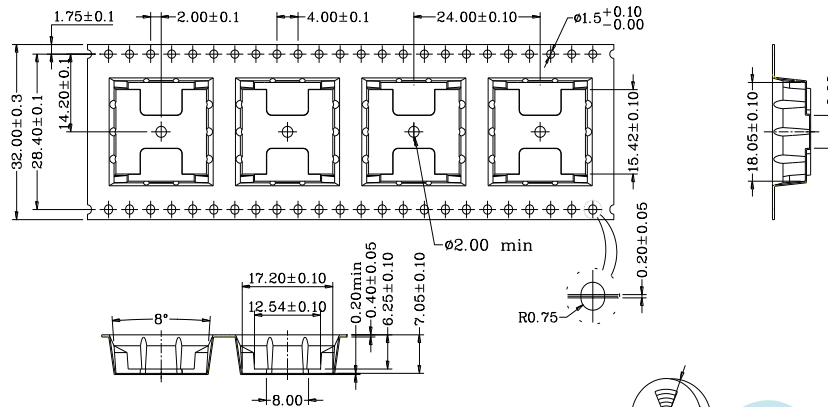
SUGGESTED PAD LAYOUT



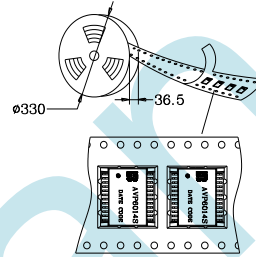
Units: mm[Inches] Tolerances: xx.xx±0.25[0.010]
0.xx±0.05[0.002]

Bothhand

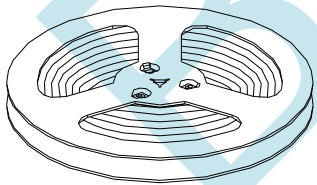
REEL PACKAGE



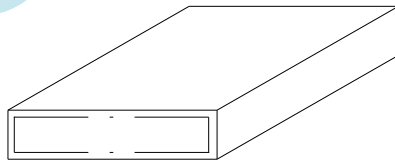
1. 10 sprocket hole pitch cumulative tolerance ±0.20
2. Material : Black Anti-Static polystyrene.
3. All dimensions meet EIA-481-3 requirements
4. Thickness : 0.40±0.05 mm
5. Component load per 13" reel : 350 pcs
6. Carrier camber is within 1 mm in 250 mm
7. Packing length per 22 reel : 29 Meters
8. Comply with Bothhand's <BHKP-WI-44-005> requirements



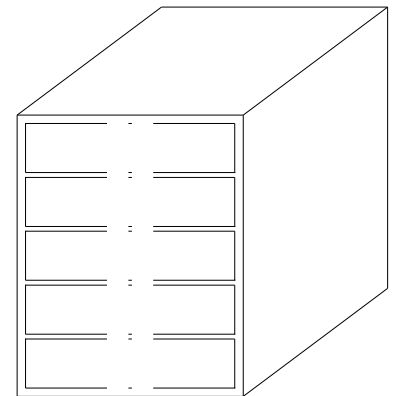
CARTON PACKAGE



REEL



INNER BOX: 347x347x82



OUTER CARTON: 375x375x470

1. 1 REEL=350PCS
2. 1 INNER BOX=1 REEL=350PCS
3. 1 OUTER CARTON=5 INNER BOXES=1750PCS