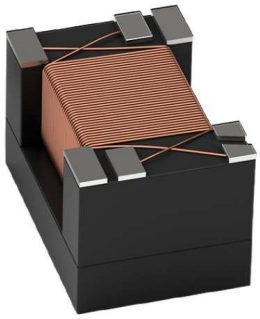
1/2.5/5/10GbE Chip-LAN Transformer **AWLT45326P Series**



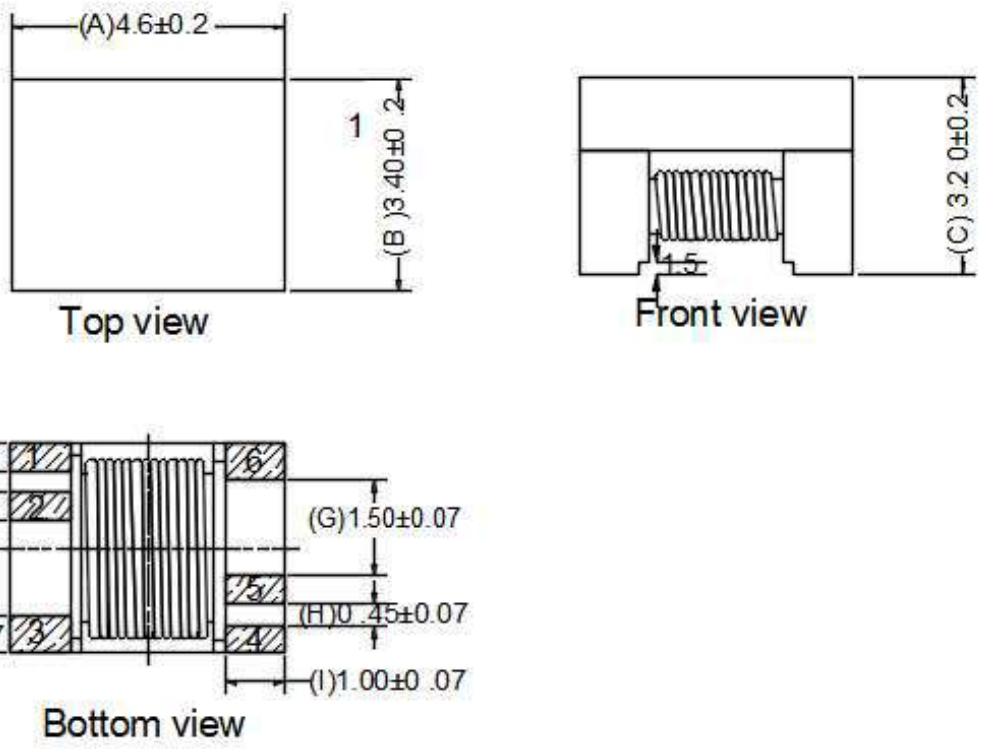
Product features

- Supports Power over Ethernet (PoE) with up to 30W output
- Compatible with lead-free solder, with a maximum temperature of 260°C
- Complies with IEEE 802.3 standards for 1000BASE-T, 2.5GBASE-T, 5GBASE-T, and 10GBASE-T
- Operating temperature -40+85℃

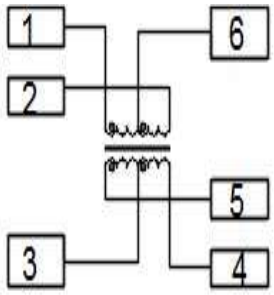
Applications

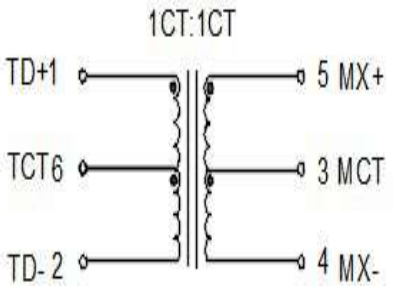
- Perfect for use in networking and interconnect devices such as servers, switches, routers, access points, as well as digital video systems and cameras.

Dimensions (mm) AWLT45326P Series



Schematics:





Specifications AWLT45326P Series

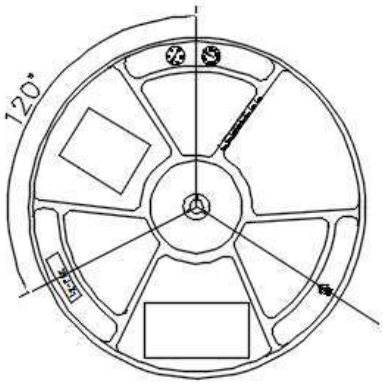
Part Number	Inter-winding stray capacitance	Turns Ration (1-2) :(5:4)	Inductance (MIN)	Insertion loss (MAX) 0.5-250 MHz	Return Loss (MAX) 0.5-40 MHz	Return Loss (MAX) 40-250 MHz	DCR (MAX)
AWLT45326P-351-1G	45pF Max	1CT:1CT	350uH Min with 8mA DC Bias	-1.5dB Max @0.5-125MHz	-25dB	-15dB	4.5Ω Max
AWLT45326P-181-2.5G	35pF Max	1CT:1CT	180uH Min with 8mA DC Bias	-1.5dB Max @0.5-200MHz	-24dB	-17dB	2.5Ω Max
AWLT45326P-161-5G	35pF Max	1CT:1CT	180uH Min with 15mA DC Bias	-2.0dB Max @0.5-250MHz	-26dB	-15dB	2.5Ω Max
AWLT45326P-121-10G	35pF Max	1CT:1CT	120uH Min with 18mA DC Bias	-2.5dB Max @0.5-500MHz	0.5-200 MHz -22dB	200-500 MHz -12dB	1.2Ω Max

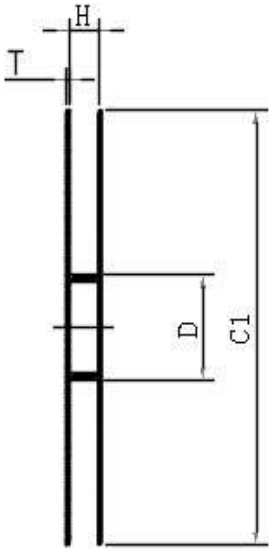
Notes:

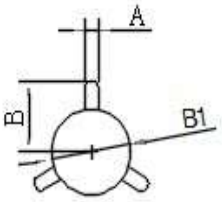
1. Hi-Pot (winding to winding): 1500Vac, 60S
2. Test Condition:100KHz,1.0Vrms.
3. Turns ratio tolerance: ±5%.
4. All test data is reference to 25℃ ambient.
5. Reflow soldering conditions:
   - Preheat: 150–200℃ for 60–180 seconds
   - Maximum Temperature: 260℃ ± 5℃, with a maximum duration of 10 seconds at peak
   - Curie Temperature: >130℃
   - Typical Temperature: 240℃ for a maximum of 15 seconds

Packaging Dimensions:

Dimensions of Reel



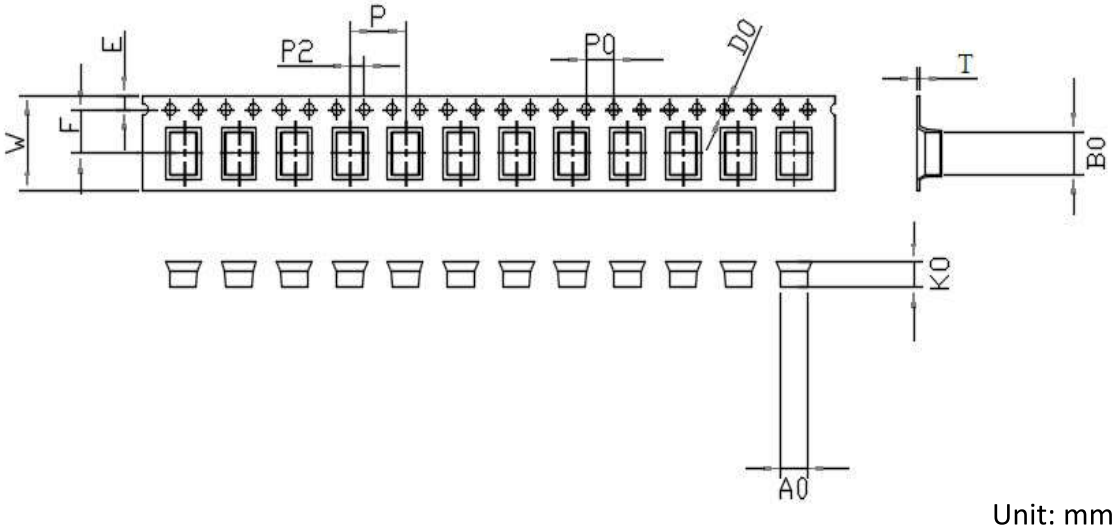




材质：蓝色 PS

A (mm)	B (mm)	B1 (mm)	C1 (mm)	D (mm)	H (mm)	T (mm)
2.50±0.3	10.75±0.3	$\Phi 13^{+0.5}_{-0.2}$	330±3.0	Φ100±1.0	12.80±0.5	2.00±0.2

Dimensions of Tape



Unit: mm

Symbol	W	A0	B0	K0	E	F	P	P0	P2	D0	T
Dimension	12.00	3.50	4.95	3.30	1.75	5.50	8.00	4.00	2.00	1.50	0.35
Tolerance	±0.30	±0.15	±0.15	±0.15	±0.10	±0.10	±0.10	±0.10	±0.10	±0.10	±0.05