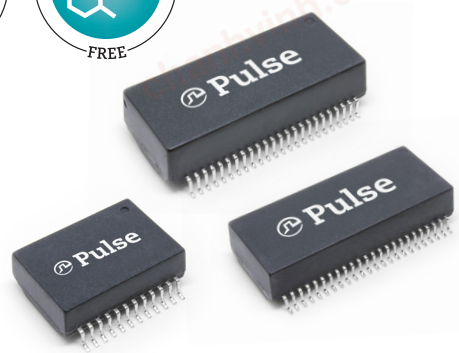
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Single and Dual 2.5GBase-T PoE SMD Magnetic Modules

HXB4013HLT, HB4015HLT, HXB4016HLT, HXB4017HLT, HB4018HLT and HXB4019HLT

Pulse a YAGEO company





- *Fully RoHS and Halogen Free*
- *Idea for Commercial/Industrial 2.5G Switches*
- *Supports 4 pair Power over Ethernet (PoE) up to 90W*
- *Meet or exceed IEEE802.3bz/at/bt*
- *Backward compatible with Gigabit PHYs*
- *Commercial and Industrial Temperature*
- *Reliable SMD packages support 245°C pk reflow*
- *All components supplied in Tape and Reel*

Electrical Specification @ 25°C

Part Number*	Media side Inductance (@100KHz/0.1Ve) uH min	Insertion Loss (dB max)		Return Loss (dB min)		PoE (Current Per Pair mA)	Operating Temperature (°C)	Isolation (Pri:Sec)	Note
		1-100 MHz	125 MHz	1-40MHz	40< f ≦ 125 MHz				
HB4013HLT	180	-1.0	-1.5	-16	-(16-10 log10(f /40))	600	0° to +70°	1500Vrms	60W PoE+
HB4018HLT	180	-1.0	-1.5	-16	-(16-10 log10(f /40))	600	0° to +70°	1500Vrms	DUAL / 60W PoE+
HB4015HLT	180	-1.0	-1.5	-16	-(16-10 log10(f /40))	600	0° to +70°	1500Vrms	60W / Surge DM 4.3KV
HXB4017HLT	180	-1.0	-1.5	-16	-(16-10 log10(f /40))	1000	-40° to +85°	1500Vrms	90W / Surge DM 3KV
HXB4016HLT	180	-1.0	-1.5	-16	-(16-10 log10(f /40))	1000	-40° to +85°	1500Vrms	90W PoE+
HXB4019HLT	180	-1.0	-1.5	-16	-(16-10 log10(f /40))	1000	-40° to +85°	1500Vrms	DUAL / 90W PoE+

Note: ** Specifications listed above refer to the base component part number that is printed on the product - ie HXB4019HLT will be HXB4019HL*

Process and Materials

Notes:

1. Storage Temperature:
   HBxxxxHL = -20 to +125°C
   HXBxxxxHL = -50 to +125°C
2. Compliance to JEDEC-J-STD 020:
   i. Moisture Sensitive Level 1
   ii. Maximum peak Reflow Solder temperature 245°C
3. All parts come in 13" (330mm) Diameter Tape and reel - see page 3-4 for details
4. Header: Black Thermoset Plastic - Material flammability rating UL 94V-0
5. Lead Frame: Cooper Alloy
6. Underplate / Overplate: Tin electro-deposited over Nickel
7. Finish: Matte finish Tin solder

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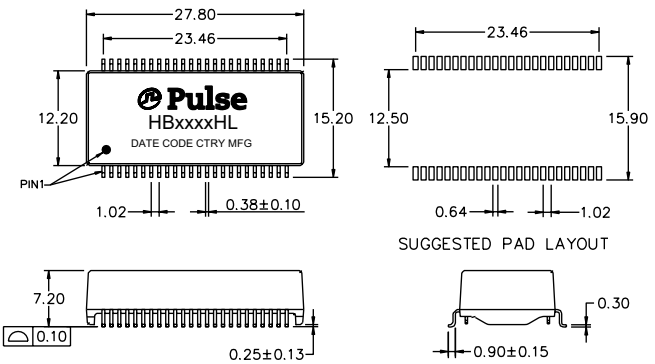
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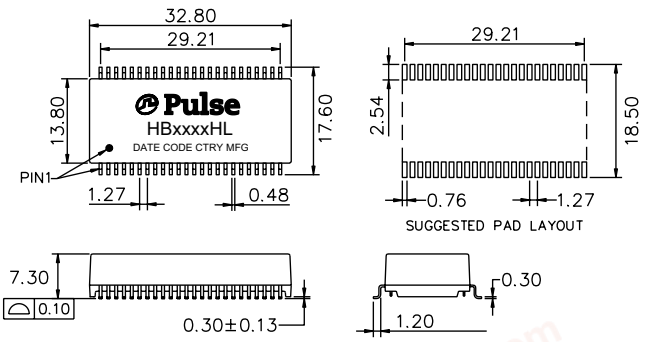
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Mechanicals

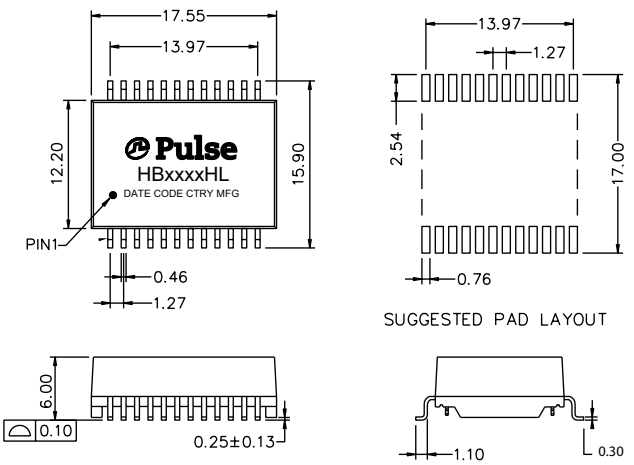
HB4018HLT



HXB4019HLT



HB401xHLT, HXB401xHLT

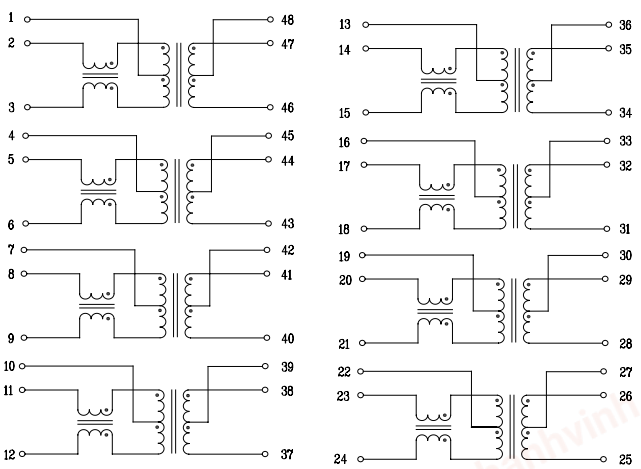


Dimensions: mm

Unless otherwise specified the following tolerances apply:
xx.xx = ±0.25
x.xx = ±025
0.xx = ±0.13

Schematic

HB4018HLT, HXB4019HLT



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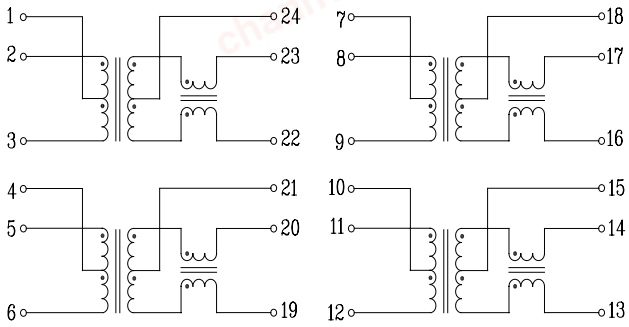
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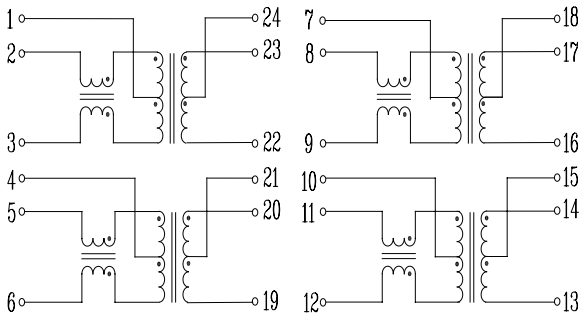
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Schematics

HB4015HLT

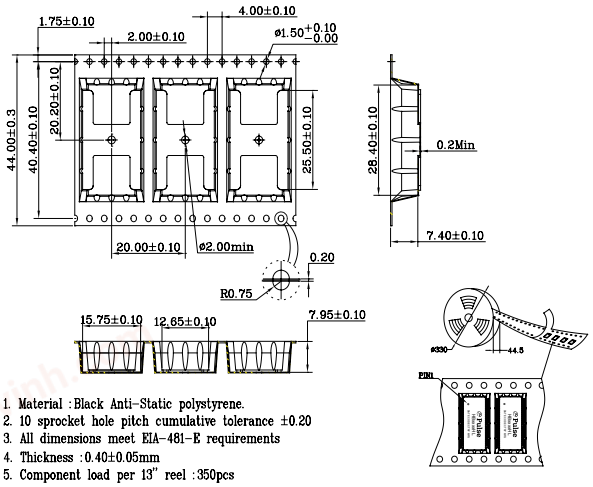


HB4013HLT, HXB4016HLT, HXB4017HLT



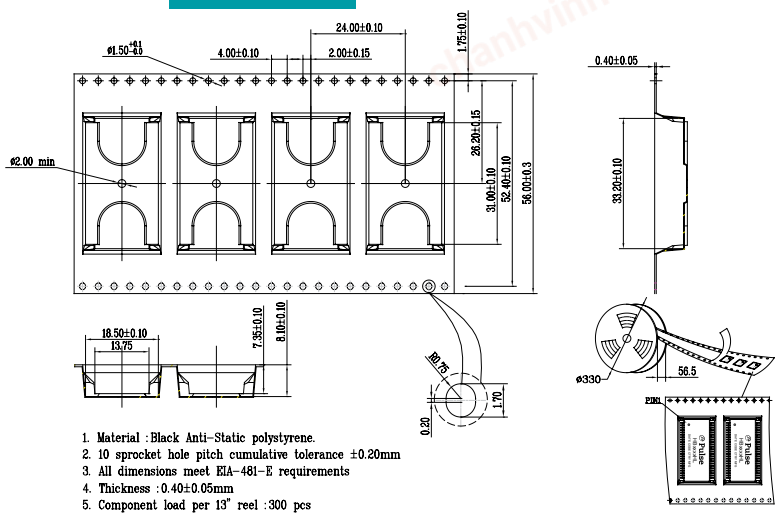
Tape & Reel

HB4018HLT



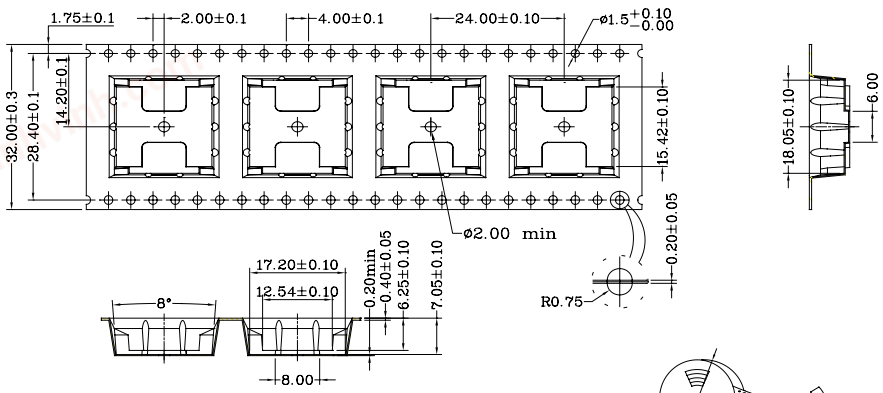
1. Material : Black Anti-Static polystyrene.
2. 10 sprocket hole pitch cumulative tolerance ±0.20
3. All dimensions meet EIA-481-E requirements
4. Thickness : 0.40±0.05mm
5. Component load per 13" reel : 350pcs

HXB4019HLT



1. Material : Black Anti-Static polystyrene.
2. 10 sprocket hole pitch cumulative tolerance ±0.20mm
3. All dimensions meet EIA-481-E requirements
4. Thickness : 0.40±0.05mm
5. Component load per 13" reel : 300 pcs

HB4013HLT, HXB4016HLT, HXB4017HLT, HB4015HLT



1. Material : Black Anti-Static polystyrene.
2. 10 sprocket hole pitch cumulative tolerance ±0.20
3. All dimensions meet EIA-481-E requirements
4. Thickness : 0.40±0.05 mm
5. Component load per 13" reel : 350 pcs

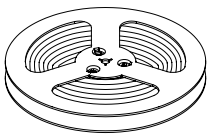
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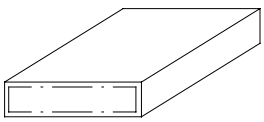
HXB4013HLT, HB4015HLT, HXB4016HLT, HXB4017HLT, HB4018HLT and HXB4019HLT

Carton Package

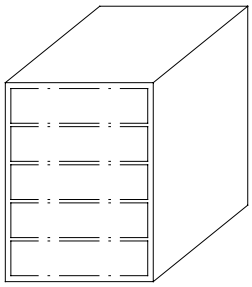
HB4013HLT, HB4015HLT, HXB4016HLT, HXB4017HLT, HB4018HLT



REEL



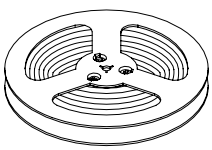
INNER BOX: 347x347x82



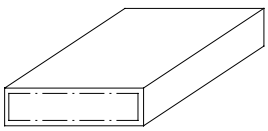
OUTER CARTON: 375x375x470

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

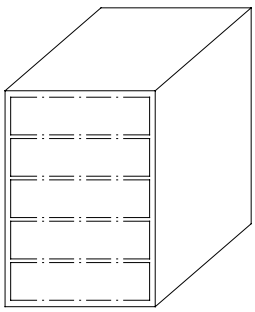
HXB4019HLT



REEL



INNER BOX: 347x347x82



OUTER CARTON: 375x375x470

1. 1 REEL=300PCS
2. 1 INNER BOX=1 REEL=300PCS
3. 1 OUTER CARTON=5 INNER BOXES=1500PCS

For More Information:

Americas - prodinfo_network_americas@yageo.com | **Europe -** prodinfo_network_emea@yageo.com | **Asia -** prodinfo_network_asia@yageo.com

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