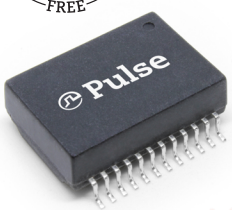
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Single Port 5GBase-T Magnetic Modules

HB5G005HLT, HB5G006HLT, HB5G007HLT, HXB5G008HLT, HB5G009HLT, HXB5G010HLT, HXB5G011HLT, HXB5G012HLT, HXB5G013HLT and HXB5G014HLT

Pulse a YAGEO company



- *Fully RoHS and Halogen Free*
- *One footprint, Standard and High Isolation options*
- *Supports 4 pair Power over Ethernet (PoE) up to 90W*
- *Meet or exceed IEEE802.3bz/at/bt*
- *Compatible with 2.5 and 5Gigabit 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	100-250 MHz	1-40MHz	40< f ≦ 250 MHz				
HXB5G010HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	600	-40° to 85°	1500Vrms	60W PoE+
HXB5G011HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	600	-40° to 85°	1500Vrms	60W PoE+
HXB5G012HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	600	-40° to 85°	4000Vrms	60W / Surge CM 6KV
HXB5G013HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	1000	-40° to 85°	1500Vrms	90W PoE+
HXB5G014HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	1000	-40° to 85°	1500Vrms	90W / Surge DM 7KV
HB5G005HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	-	0° to 70°	1500Vrms	-
HB5G006HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	-	0° to 70°	1500Vrms	-
HB5G007HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	-	0° to 70°	4000Vrms	Surge DM 4.3KV
HXB5G008HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	-	-40° to 85°	1500Vrms	-
HB5G009HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	-	0° to 70°	4000Vrms	Surge CM/ DM 6KV

Note: **Specifications listed above refer to the base component part number that is printed on the product - ie HXB5G011HLT will be HXB5G011HL*

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 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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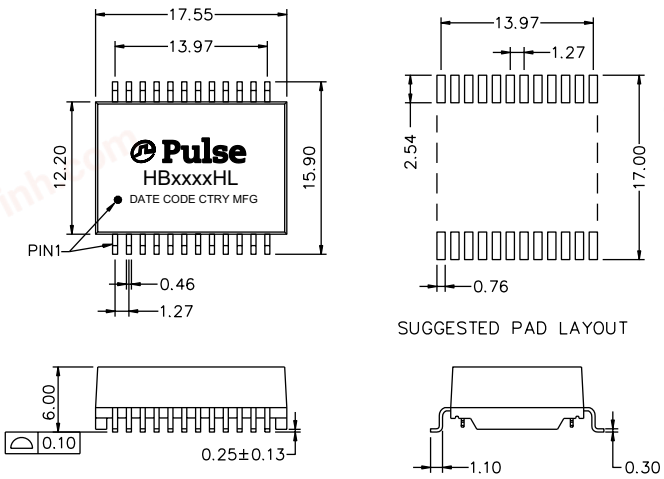
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Mechanicals

HB5G00xHLT, HXB5G00XHLT, HXB5G01xHLT

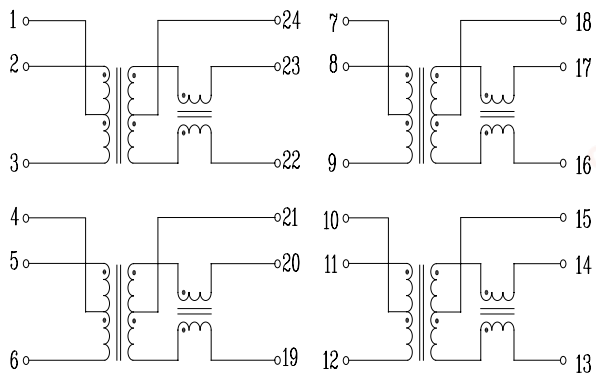


Dimensions: mm

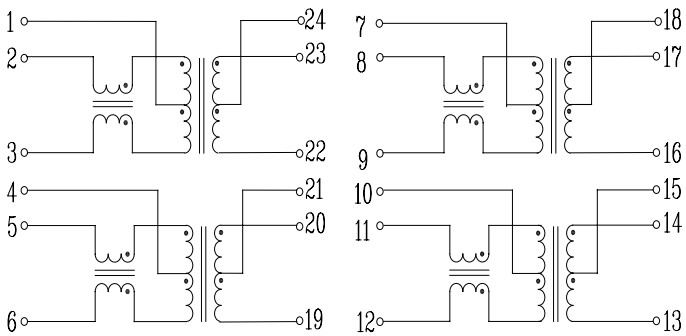
Unless otherwise specified the following tolerances apply:
xx.xx = ±0.25
x.xx = ±025
0.xx = ±0.13

Schematic

HB5G005HLT, HB5G007HLT, HXB5G011HLT



HB5G006/9HLT, HXB5G008HLT, HXB5G010/12/13/14HLT



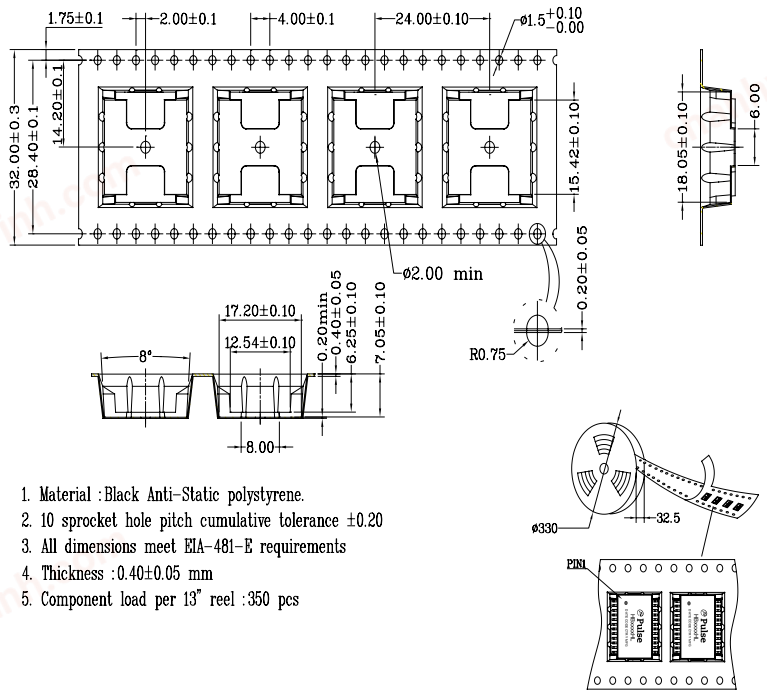
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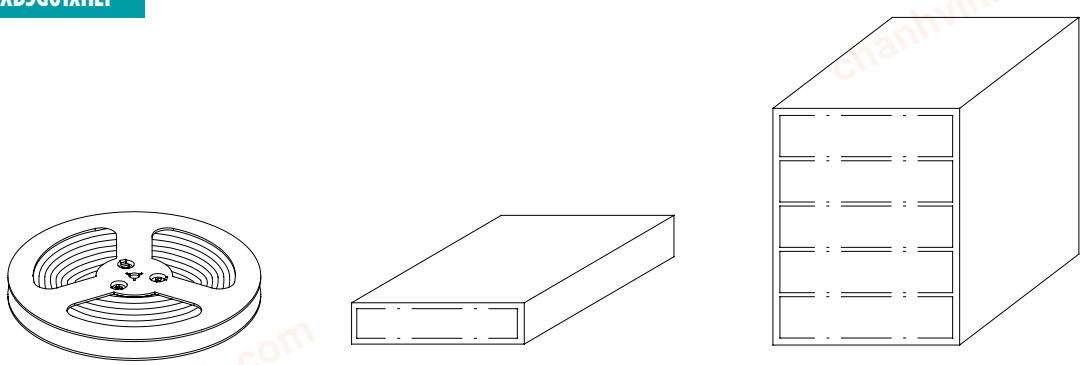
Tape & Reel

HB5G00xHLT, HXB5G01xHLT



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

HB5G00xHLT, HXB5G01xHLT



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

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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