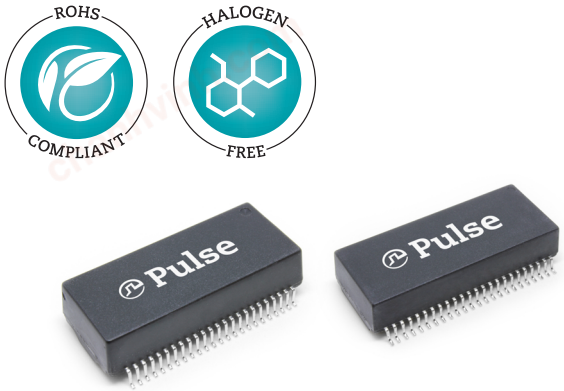
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Dual Port 5GBase-T Magnetic Modules

HB5G015HLT, HB5G016HLT, HXB5G017HLT, HB5G018HLT, HB5G019HLT and HXB5G020HLT

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				
HB5G015HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	-	0° to 70°	1500Vrms	-
HB5G018HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	-	0° to 70°	4000Vrms	Surge DM 4.3KV
HB5G016HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	600	0° to 70°	1500Vrms	60W PoE+
HXB5G017HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	600	-40° to 85°	1500Vrms	60W PoE+
HB5G019HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	600	0° to 70°	4000Vrms	60W /Surge DM 4.3KV
HXB5G020HLT	180	-1.0	-2.0	-16	-(16-10 log10(f /40))	1000	-40° to 85°	1500Vrms	90W PoE+

Note: ** Specifications listed above refer to the base component part number that is printed on the product - ie HXB5G020HLT will be HXB5G020HL*

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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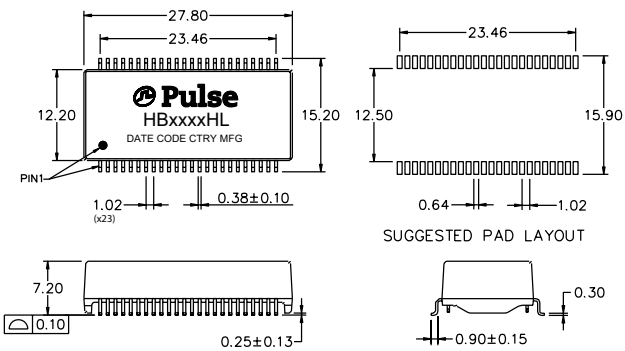
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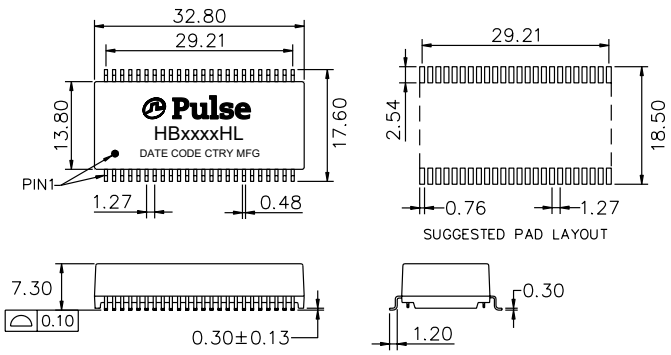
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Mechanicals

HB5G015HLT, HB5G016HLT, HXB5G017HLT



HB5G018HLT, HB5G019HLT, HXB5G020HLT

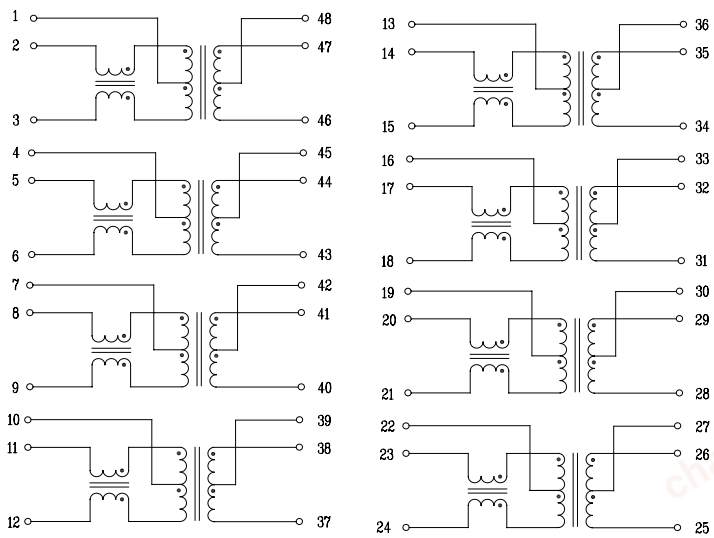


Dimensions: mm

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

Schematic

HB5G01xHLT, HXB5G01xHLT, HXB5G020HLT



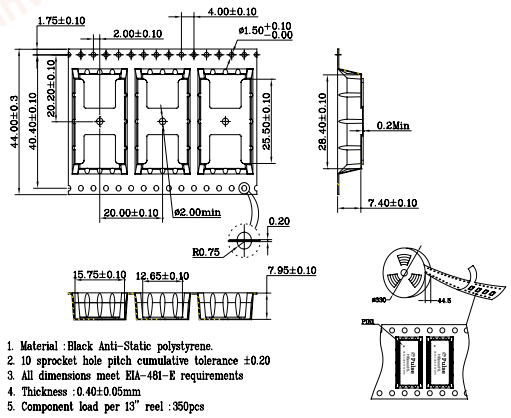
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Dual Port 5GBase-T Magnetic Modules

HB5G015HLT, HB5G016HLT, HXB5G017HLT, HB5G018HLT, HB5G019HLT and HXB5G020HLT

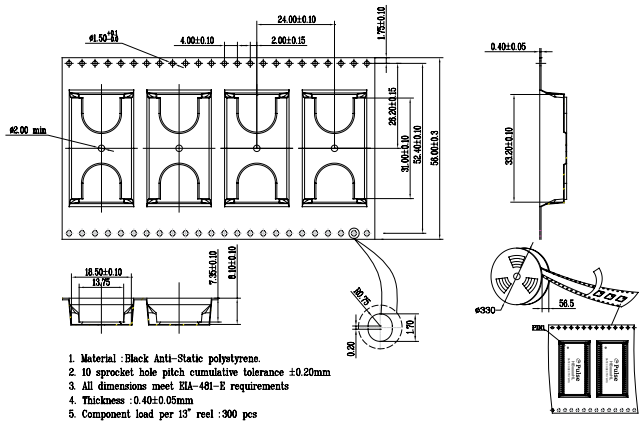
Tape & Reel

HB5G015HLT, HB5G016HLT, HXB5G017HLT



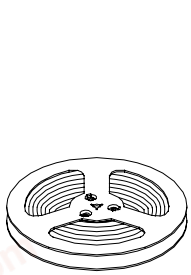
1. Material : Black Anti-Static polystyrene.
2. 10 sprocket hole pitch cumulative tolerance ±0.20
3. All dimensions meet EIA-481-E requirements
4. Thickness : 0.40±0.05mm
5. Component load per 13" reel : 350pcs

HB5G018HLT, HB5G019HLT, HXB5G020HLT

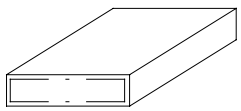


1. Material : Black Anti-Static polystyrene.
2. 10 sprocket hole pitch cumulative tolerance ±0.20mm
3. All dimensions meet EIA-481-E requirements
4. Thickness : 0.40±0.05mm
5. Component load per 13" reel : 300 pcs

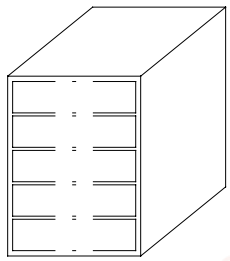
HB5G015HLT, HB5G016HLT, HXB5G017HLT



REEL



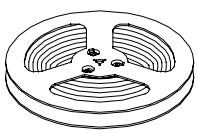
INNER BOX: 347x347x82



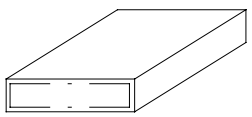
OUTER CARTON: 375x375x470

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

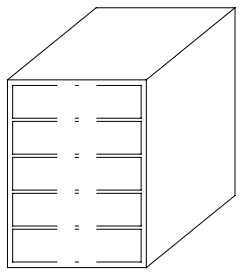
HB5G018HLT, HB5G019HLT, HXB5G020HLT



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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