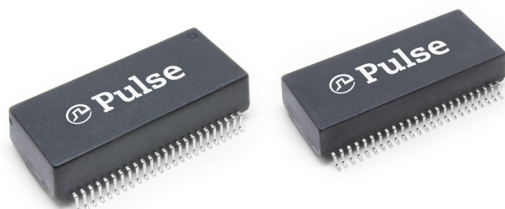
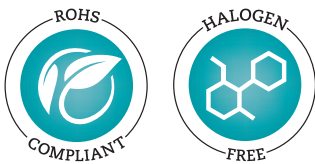


Dual Port 5GBase-T Magnetic Modules

HB5G015HLT, HB5G016HLT, HXB5G017HLT, HB5G018HLT, HB5G019HLT
and HXB5G020HLT



- 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/0.1V _e) 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:

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

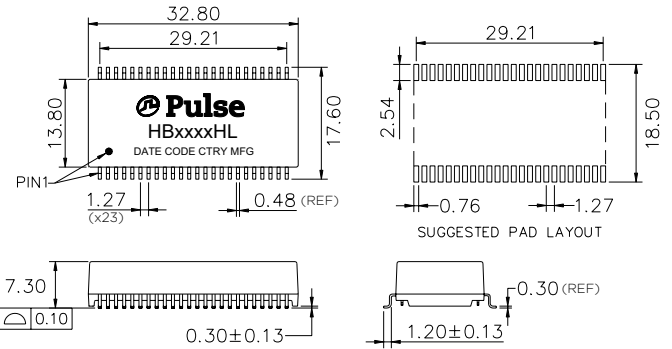
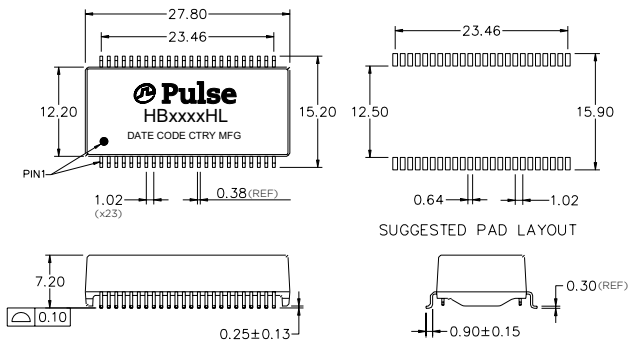
Dual Port 5GBase-T Magnetic Modules

HB5G015HLT, HB5G016HLT, HXB5G017HLT, HB5G018HLT, HB5G019HLT
and HXB5G020HLT

Mechanicals

HB5G015HLT, HB5G016HLT, HXB5G017HLT

HB5G018HLT, HB5G019HLT, HXB5G020HLT

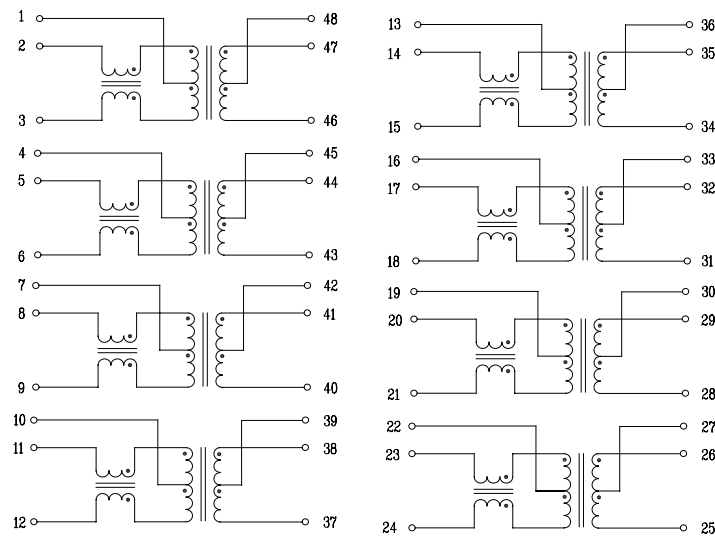


Dimensions: mm

Unless otherwise specified,
all tolerances are $\pm 0,25$

Schematic

HB5G01xHLT, HXB5G01xHLT, HXB5G020HLT

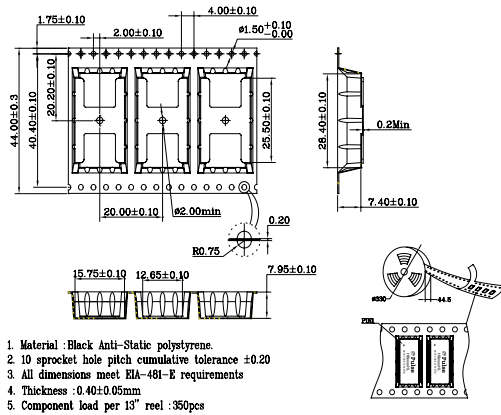


Dual Port 5GBase-T Magnetic Modules

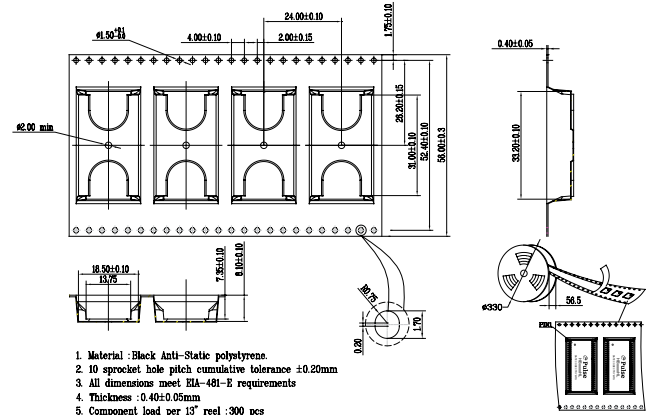
HB5G015HLT, HB5G016HLT, HXB5G017HLT, HB5G018HLT, HB5G019HLT
and HXB5G020HLT

Tape & Reel

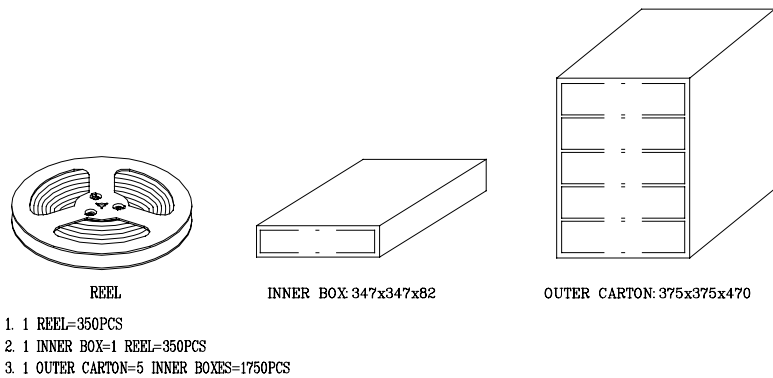
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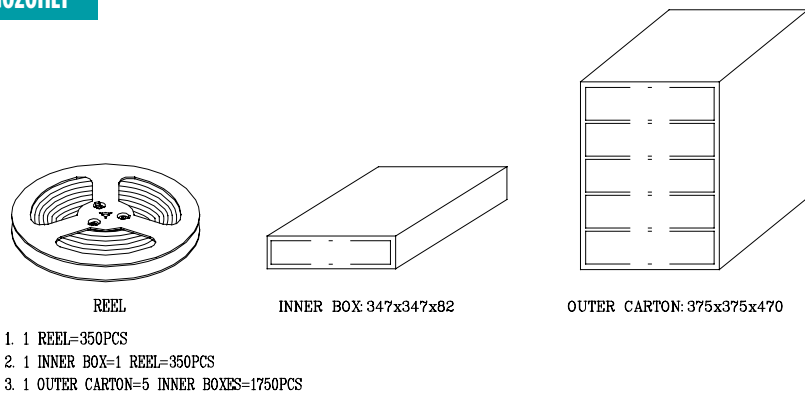
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HB5G015HLT, HB5G016HLT, HXB5G017HLT



HB5G018HLT, HB5G019HLT, HXB5G020HLT



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