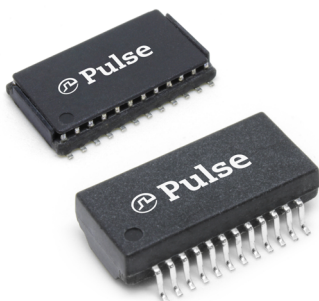
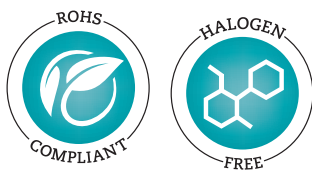


Single Port 1Gigabit PoE SMD Magnetic Modules

HB5005HLT, HB5006HLT, HXB5008HLT, HB5004HLT, HB5009HLT,
HXB5007HLT, HB5010HLT, HB5011HLT, HXB5011HLT



- Fully RoHS and Halogen Free
- Single port, Low profile compact footprint
- Supports 30 Watt, 4pair Power over Ethernet
- Meet or exceed IEEE802.3ab/af for 1000Base-T
- Compatible with all 1:1 turns ration PHYs
- Commercial and Industrial Temperature
- Reliable SMD packages support 245°C pk Reflow
- All components Supplied in Tape and Reel

Electrical Specification @ 25°C (OCL@ 8mA DC)

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	1-40MHz	40< f ≤ 100 MHz				
HB5005HLT	350	-1.0	-16	-16	-(10-20 log10(f/80))	350	0 to 70°	1500Vrms	30W PoE 4 Pair
HB5006HLT	350	-1.0	-16	-16	-(10-20 log10(f/80))	350	0 to 70°	1500Vrms	30W PoE 4 Pair
HXB5008HLT	350	-1.0	-16	-16	-(10-20 log10(f/80))	350	-40° to 85°	1500Vrms	30W PoE 4 Pair
HB5004HLT	350	-1.0	-16	-16	-(10-20 log10(f/80))	350	0 to 70°	1500Vrms	30W PoE 4 Pair
HB5009HLT	350	-1.0	-16	-16	-(10-20 log10(f/80))	350	0 to 70°	1500Vrms	30W PoE 4 Pair
HXB5007HLT	350	-1.0	-16	-16	-(10-20 log10(f/80))	350	-40° to 85°	1500Vrms	30W PoE 4 Pair
HB5010HLT	350	-1.0	-16	-16	-(10-20 log10(f/80))	350	0 to 70°	1500Vrms	30W PoE, Surge 2.5KV

Note: * Specifications listed above refer to the base component part number that is printed on the product - ie HXB5007HLT will be HXB5007HL

Electrical Specification @ 25°C (OCL@ 8mA DC)

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	1-40MHz	40< f ≤ 100 MHz				
HB5011HLT	350	-1.0	-16	-16	-(10-20 log10(f/80))	-	0 to 70°	1500Vrms	PCMCIA
HXB5011HLT	350	-1.0	-16	-16	-(10-20 log10(f/80))	-	-40 to 85°	1500Vrms	PCMCIA

Note: * Specifications listed above refer to the base component part number that is printed on the product - ie HXB5011HLT will be HXB5011HL

Process and Materials

Notes:

- Storage Temperature:
HBxxxxHL = -20 to +125°C
HXBxxxxHL = -50 to +125°C
- Compliance to JEDEC-J-STD 020:
i. Moisture Sensitive Level 1
ii. 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

Single Port 1Gigabit PoE SMD Magnetic Modules

HB5005HLT, HB5006HLT, HXB5008HLT, HB5004HLT, HB5009HLT,
HXB5007HLT, HB5010HLT, HB5011HLT, HXB5011HLT

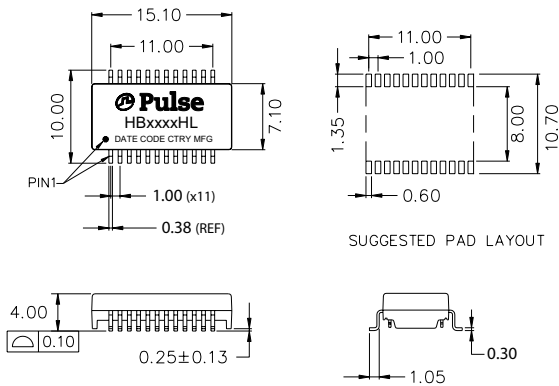


Pulse

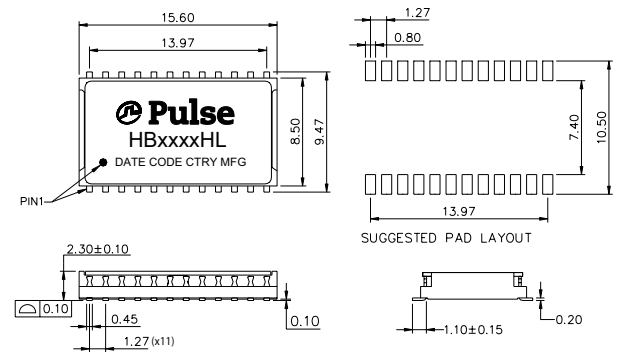
a YAGEO company

Mechanicals

HB5004/5/6/9/10HLT, HXB5007/8HLT

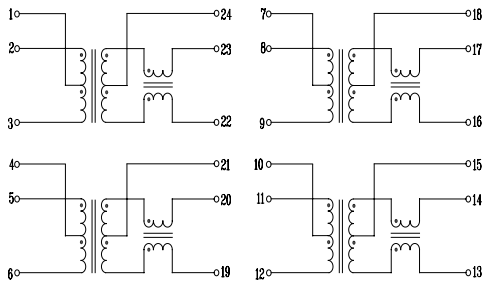


HB5011HLT, HXB5011HLT

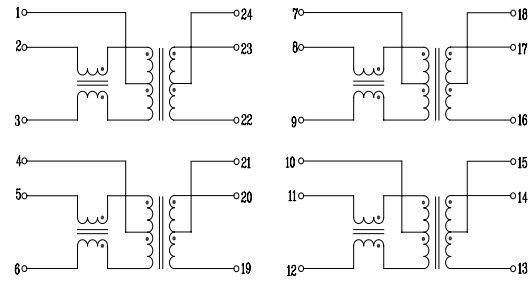


Schematics

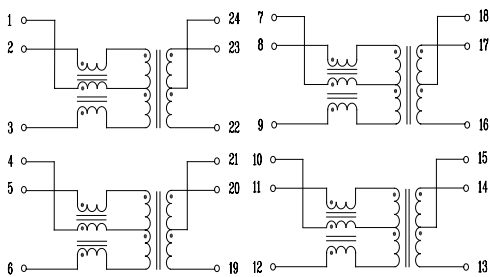
HB5005HLT, HXB5007HLT, HB5010HLT



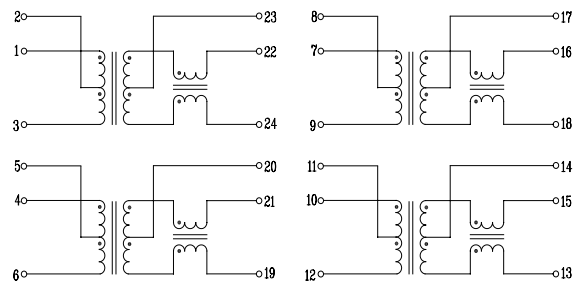
HB5006HLT, HXB5008HLT



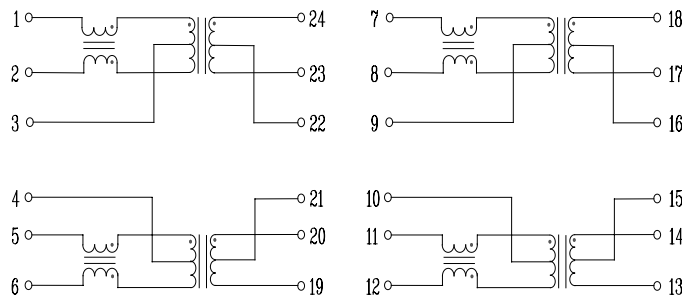
HB5009HLT



HB5004HLT



HXB/HB5011HLT

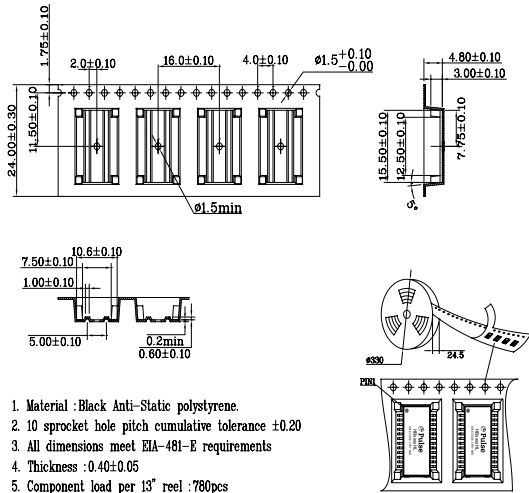


Single Port 1Gigabit PoE SMD Magnetic Modules

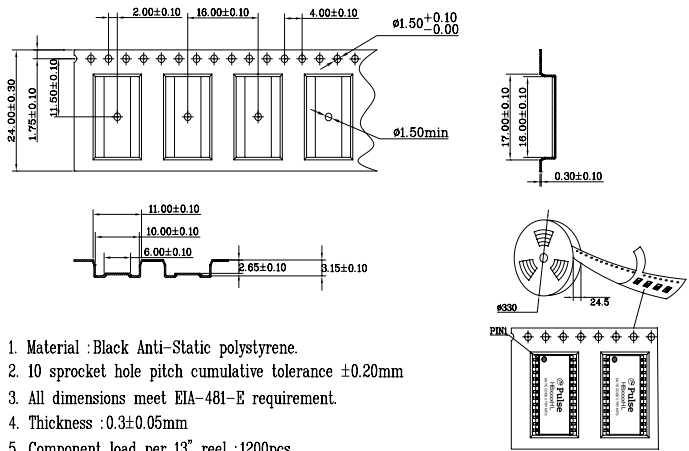
HB5005HLT, HB5006HLT, HXB5008HLT, HB5004HLT, HB5009HLT,
HXB5007HLT, HB5010HLT, HB5011HLT, HXB5011HLT

Tape & Reel

HB5004/5/6/9/10HLT, HXB5007/8HLT

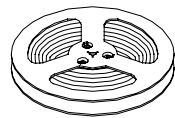


HB5011HLT, HXB5011HLT

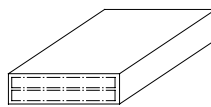


Carton Package

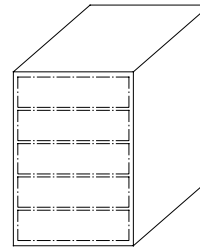
HB5004/5/6/9/10HLT, HXB5007/8HLT



REEL



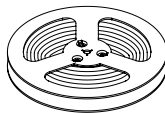
INNER BOX: 347x347x82



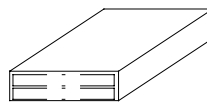
OUTER CARTON: 375x375x470

1. 1 REEL=780PCS
2. 1 INNER BOX=2 REELS=1560PCS
3. 1 OUTER CARTON=5 INNER BOXES=7800PCS

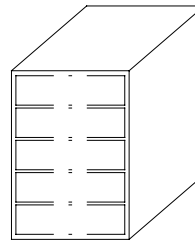
HB5011HLT, HXB5011HLT



REEL



INNER BOX: 347x347x82



OUTER CARTON: 375x375x470

1. 1 REEL=1200PCS
2. 1 INNER BOX=2 REELS=2400PCS
3. 1 OUTER CARTON=5 INNER BOXES=12000PCS

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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