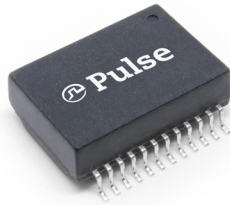


Single Port 1Gigabit PoE SMD Magnetic Modules

HB5012HLT, HXB5012HLT, HB6002HLT, HB6003HLT, HB6006HLT, HB6007HLT, HXB6004HLT, HXB6005HLT, HXB6009HLT, HXB6008HLT



- Ⓢ Fully RoHS and Halogen Free
- Ⓢ Multiple options within a single footprint
- Ⓢ Supports 4 pair Power over Ethernet (PoE) up to 90W
- Ⓢ Meet or exceed IEEE802.3ab/af/at/bt
- Ⓢ 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				
HB5012HLT	350	-1.0	-16	-(10-20 log10(f/80))		-	0 to 70°	1500Vrms	-
HXB5012HLT	350	-1.0	-16	-(10-20 log10(f/80))		-	-40° to 85°	1500Vrms	-
HB6002HLT	350	-1.0	-16	-(10-20 log10(f/80))		720	0° to 70°	1500Vrms	60W 4pair PoE
HB6006HLT	350	-1.0	-16	-(10-20 log10(f/80))		350	0° to 70°	5000Vrms	30W 4pair PoE
HB6007HLT	350	-1.0	-16	-(10-20 log10(f/80))		720	0° to 70°	5000Vrms	60W PoE+, Surge CM 6KV
HB6003HLT	350	-1.0	-16	-(10-20 log10(f/80))		720	0 to 70°	1500Vrms	60W 4pair PoE
HXB6004HLT	350	-1.0	-16	-(10-20 log10(f/80))		720	-40° to 85°	1500Vrms	60W 4pair PoE
HXB6005HLT	350	-1.0	-16	-(10-20 log10(f/80))		720	-40° to 85°	1500Vrms	60W 4pair PoE
HXB6009HLT	350	-1.0	-16	-(10-20 log10(f/80))		720	-40° to 85°	1500Vrms	60W PoE+, Surge DM 7KV

Note: * Specifications listed above refer to the base component part number that is printed on the product - ie HXB6009HLT will be HXB6009HL

Electrical Specification @ 25°C (OCL@ 15mA 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				
HXB6008HLT	350	-1.4	-16	-(10-20 log10(f/80))		1000	-40° to 85°	1500Vrms	90W 4pair PoE+

Note: * Specifications listed above refer to the base component part number that is printed on the product - ie HXB6008HLT will be HXB6008HL

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

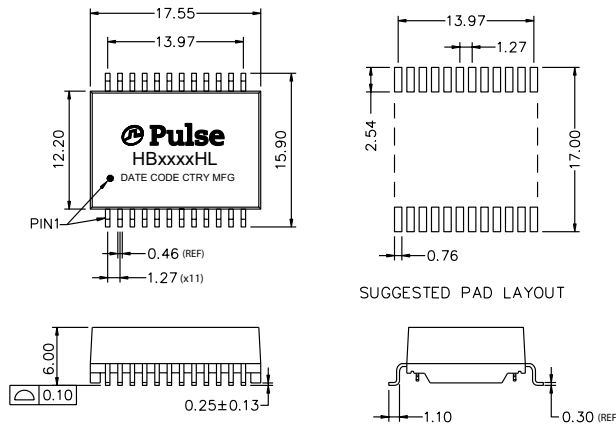
Single Port 1Gigabit PoE SMD Magnetic Modules

HB5012HLT, HXB5012HLT, HB6002HLT, HB6003HLT, HB6006HLT, HB6007HLT, HXB6004HLT, HXB6005HLT, HXB6009HLT, HXB6008HLT



Mechanicals

HB5/HB6xxxHLT/HXB6xxxHLT



Dimensions: mm

Unless otherwise specified the following tolerances apply:

xx.xx = ± 0.25

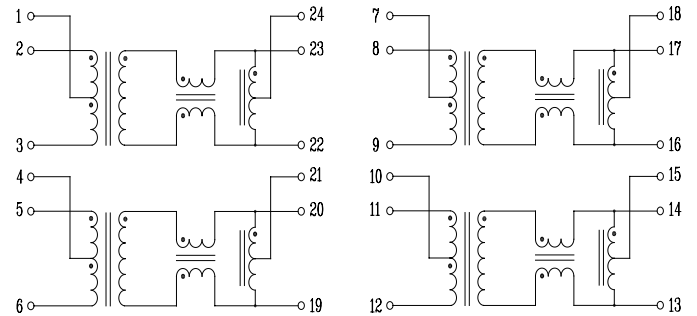
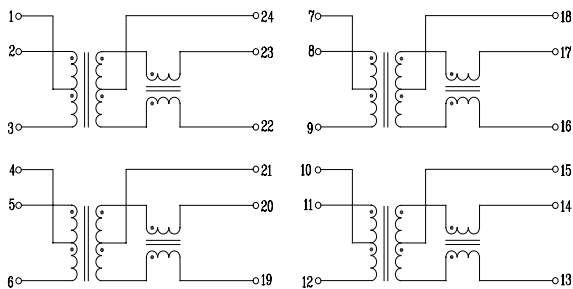
x.xx = ± 0.25

0.xx = ± 0.13

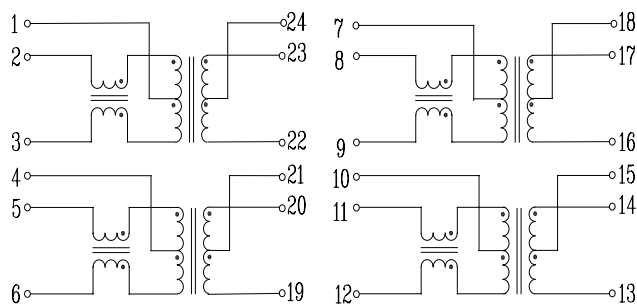
Schematics

HB/HXB5012HLT, HB6xxxHLT, HXB6004HLT

HB6002HLT



HXB6005HLT, HXB6008HLT, HXB6009HLT

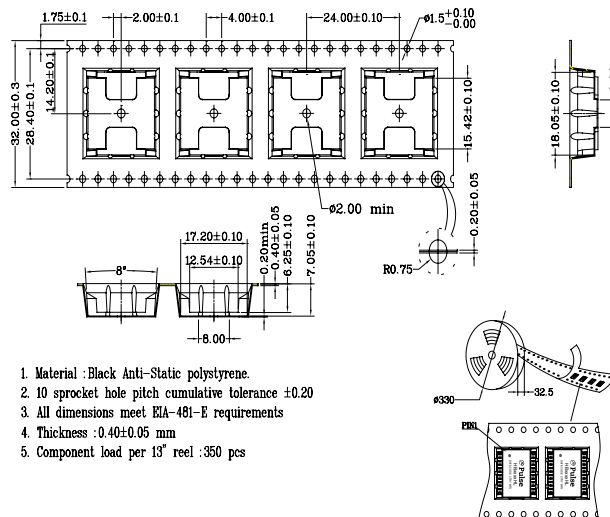


Single Port 1Gigabit PoE SMD Magnetic Modules

HB5012HLT, HXB5012HLT, HB6002HLT, HB6003HLT, HB6006HLT, HB6007HLT,
HXB6004HLT, HXB6005HLT, HXB6009HLT, HXB6008HLT

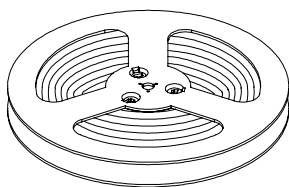
Tape & Reel

HB/HXB5012HLT, HB600xHLT, HXB600xHLT

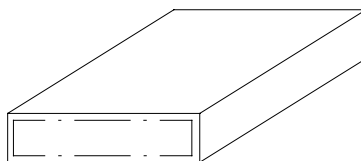


Carton Package

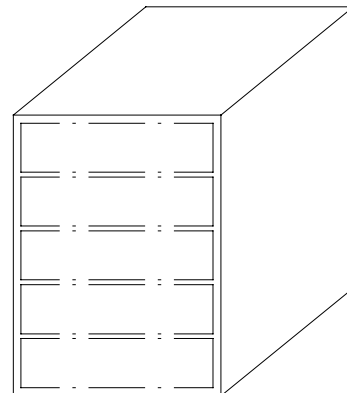
HB/HXB5012HLT, HB600xHLT, HXB600xHLT



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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