

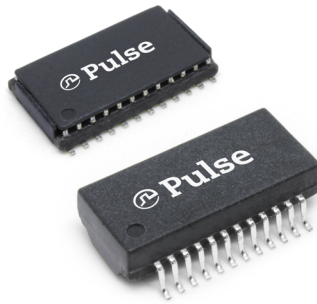
Single Port 1Gigabit PoE SMD Magnetic Modules

HB5005HLT, HB5006HLT, HXB5008HLT, HB5004HLT, HB5009HLT, HXB5007HLT, HB5010HLT, HB5011HLT, HXB5011HLT, HXB5017HLT and HXB6020HLT



Pulse

a YAGEO company



- Fully RoHS and Halogen Free
- Single port, Low profile compact footprint
- Supports 30 & 60 Watt, 4pair Power over Ethernet
- Meet or exceed IEEE802.3ab/af/at 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	-(10-20 log10(f/80))		350	0 to 70°	1500Vrms	30W PoE 4 Pair
HB5006HLT	350	-1.0	-16	-(10-20 log10(f/80))		350	0 to 70°	1500Vrms	30W PoE 4 Pair
HXB5008HLT	350	-1.0	-16	-(10-20 log10(f/80))		350	-40° to 85°	1500Vrms	30W PoE 4 Pair
HB5004HLT	350	-1.0	-16	-(10-20 log10(f/80))		350	0 to 70°	1500Vrms	30W PoE 4 Pair
HB5009HLT	350	-1.0	-16	-(10-20 log10(f/80))		350	0 to 70°	1500Vrms	30W PoE 4 Pair
HXB5007HLT	350	-1.0	-16	-(10-20 log10(f/80))		350	-40° to 85°	1500Vrms	30W PoE 4 Pair
HB5010HLT	350	-1.0	-16	-(10-20 log10(f/80))		350	0 to 70°	1500Vrms	30W PoE, Surge 2.5KV
HXB5017HLT	350	-1.0	-16	-(10-20 log10(f/80))		350	-40° to 85°	1500Vrms	30W PoE 4 Pair
HXB6020HLT	350	-1.0	-16	-(10-20 log10(f/80))		720	-40° to 85°	1500Vrms	60W PoE 4 Pair

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	-(10-20 log10(f/80))		-	0 to 70°	1500Vrms	PCMCIA
HXB5011HLT	350	-1.0	-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

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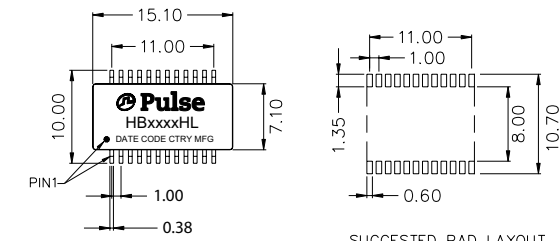


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Mechanicals

HB5004/5/6/9/10HLT, HXB5007/8/17HLT, HXB6020HLT



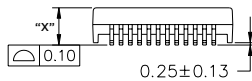
Dimensions: mm

Unless otherwise specified the following tolerances apply:

xx.xx = ± 0.25

x.xxx = ± 0.25

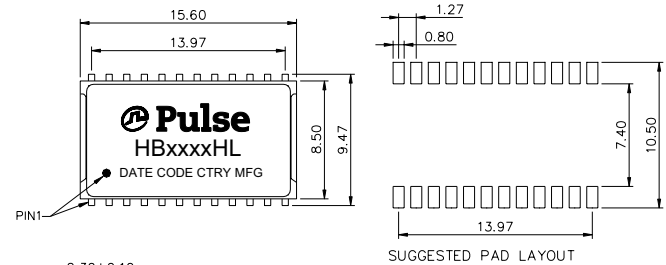
0.xx = ± 0.13



Dimensions "X"

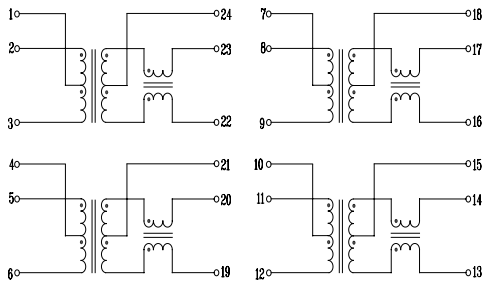
All parts the height is 4.00mm except for HXB6020HLT when it is 5.80mm

HB5011HLT, HXB5011HLT

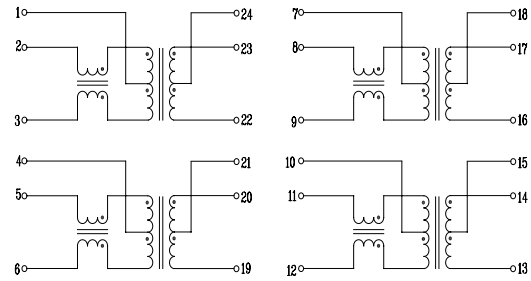


Schematics

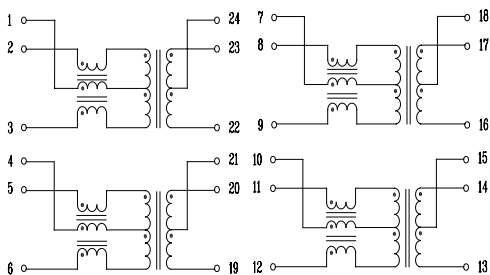
HB5005HLT, HXB5007HLT, HB5010HLT



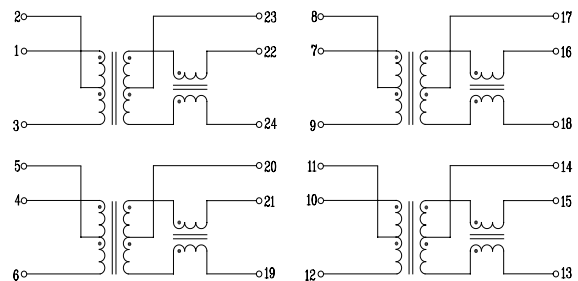
HB5006HLT, HXB5008HLT, HXB6020HLT



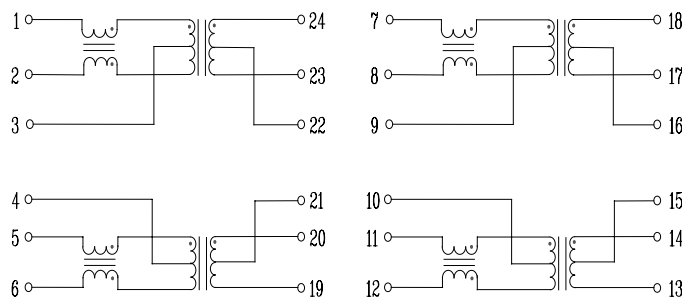
HB5009HLT



HB5004HLT, HXB5017HLT



HXB/5011HLT

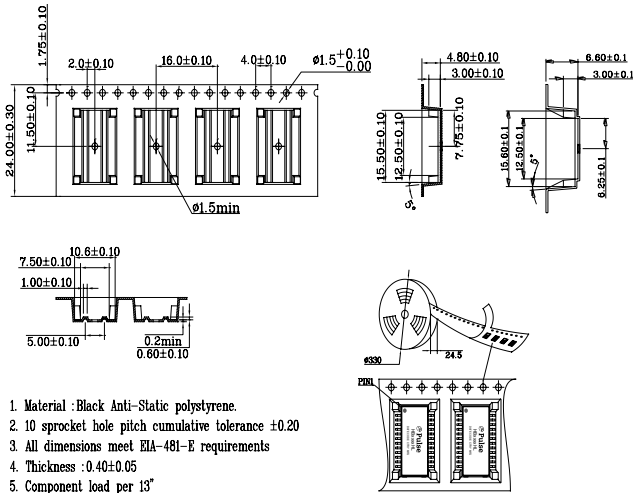


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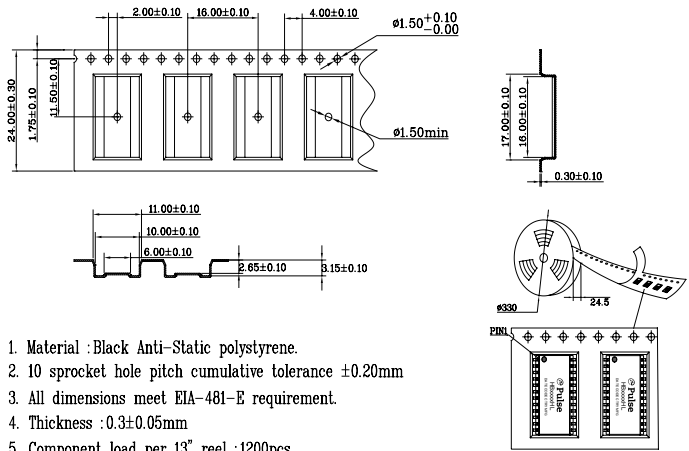
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Tape & Reel

HB5004/5/6/9/10HLT, HXB5007/8/17HLT, HXB6020HLT

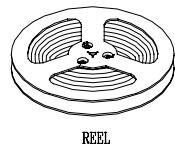


HB5011HLT, HXB5011HLT

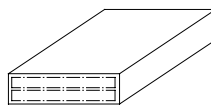


Carton Package

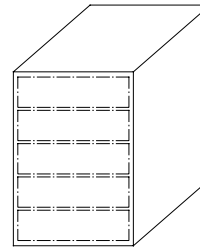
HB5004/5/6/9/10HLT, HXB5007/8/17HLT, HXB6020HLT



REEL



INNER BOX: 347x347x82



OUTER CARTON: 375x375x470

HB/HXB50xxHLT

- FULL REEL = 780PCS
- INNER BOX = 2 REELS = 1560PCS
- OUTER CARTON = 5 INNER BOXES = 7800PCS

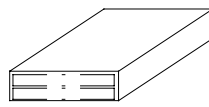
HXB6020HLT

- FULL REEL = 600PCS
- INNER BOX = 2 REELS = 1200PCS
- OUTER CARTON = 5 INNER BOXES = 6000PCS

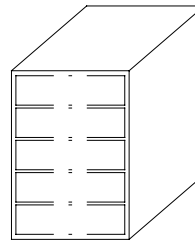
HB5011HLT, HXB5011HLT



REEL



INNER BOX: 347x347x82



OUTER CARTON: 375x375x470

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

For More Information:

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