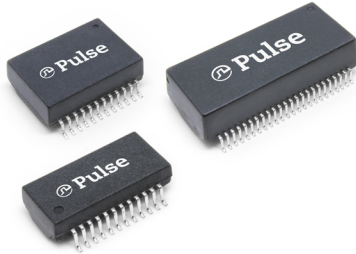


Single and Dual 2.5Gigabit SMD Modules

HXB4009HLT, HB4009HLT, HB4010HLT, HB4011HLT and HB4012HLT



- Ⓜ Fully RoHS and Halogen Free
- Ⓜ Compact, Low Profile (4.0mm) options
- Ⓜ High Isolation and Surge option
- Ⓜ Meet or exceed IEEE802.3bz
- Ⓜ Compatible with all major 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	125 MHz	1-40MHz	40< f ≤ 125 MHz				
HB4010HLT	180	-1.0	-1.5	-16	$-(16-10 \log_{10}(f/40))$	-	0 to +70°	1500Vrms	-
HB4011HLT	180	-1.0	-1.5	-16	$-(16-10 \log_{10}(f/40))$	-	0 to +70°	3000Vrms	Surge CM 4KV
HB4012HLT	180	-1.0	-1.5	-16	$-(16-10 \log_{10}(f/40))$	-	0 to +70°	1500Vrms	Dual Port
HB4009HLT	180	-1.0	-1.5	-16	$-(16-10 \log_{10}(f/40))$	-	0 to +70°	1500Vrms	-
HXB4009HLT	180	-1.0	-1.5	-16	$-(16-10 \log_{10}(f/40))$	-	-40 to +85°	1500Vrms	-

Note: * Specifications listed above refer to the base component part number that is printed on the product - ie HXB4009HLT will be HXB4009HL

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 3-4 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

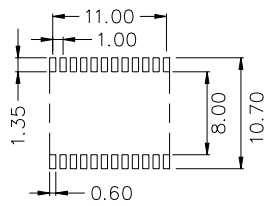
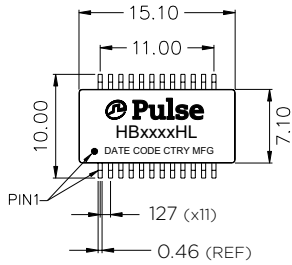
Single and Dual 2.5Gigabit SMD Modules

HXB4009HLT, HB4009HLT, HB4010HLT, HB4011HLT and HB4012HLT

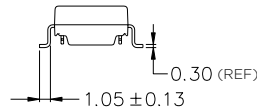
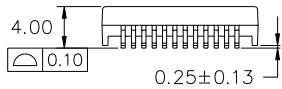


Mechanical

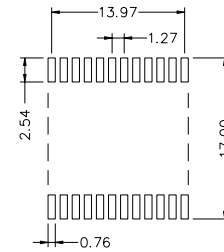
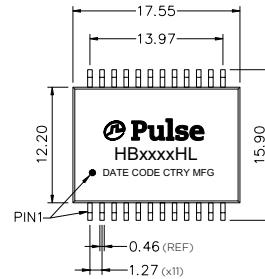
HB/HXB4009HLT



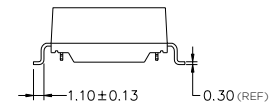
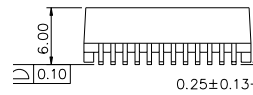
SUGGESTED PAD LAYOUT



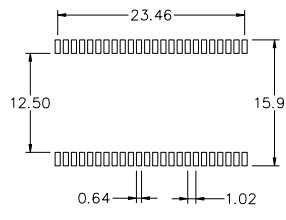
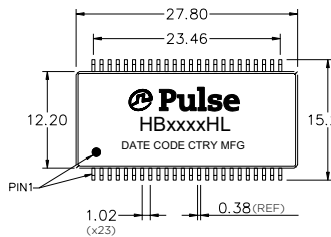
HB4010/11HLT



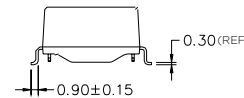
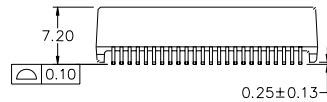
SUGGESTED PAD LAYOUT



HB4012HLT



SUGGESTED PAD LAYOUT

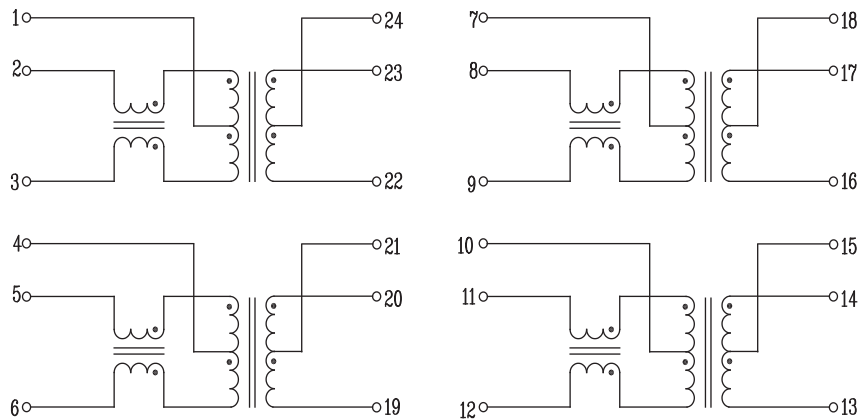


Dimensions: mm

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

Schematic

HXB4009HLT, HB4009HLT, HB4010HLT, HB4011HLT

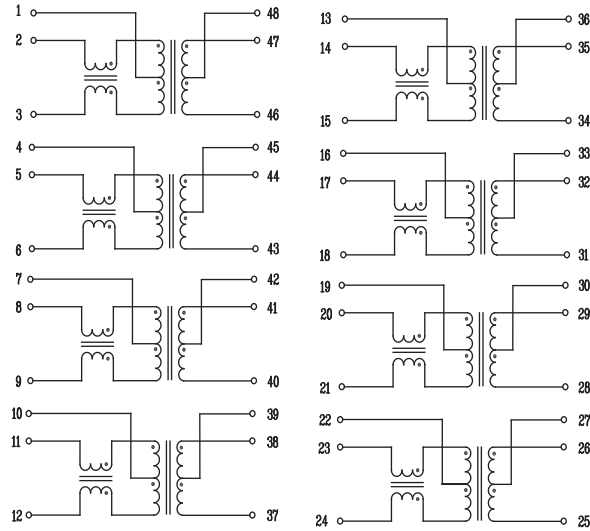


Single and Dual 2.5Gigabit SMD Modules

HB4009HLT, HB4009HLT, HB4010HLT, HB4011HLT and HB4012HLT

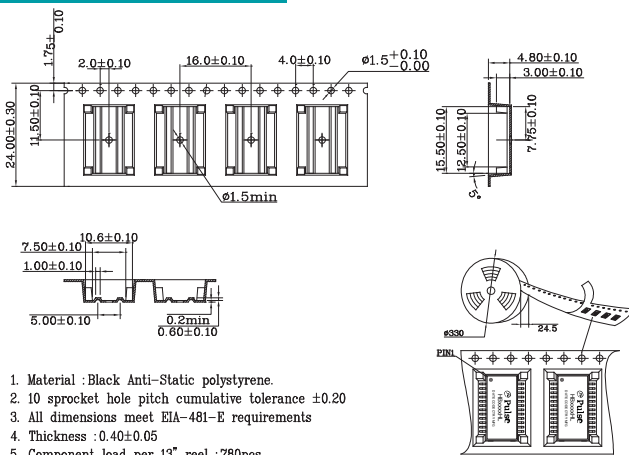
Schematic

HB4012HLT



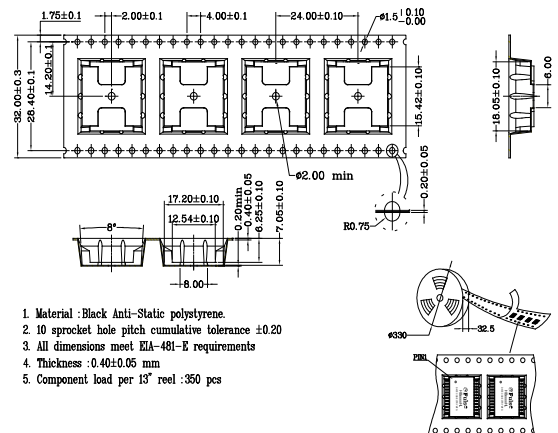
Tape & Reel

HB4009HLT, HXB4009HLT



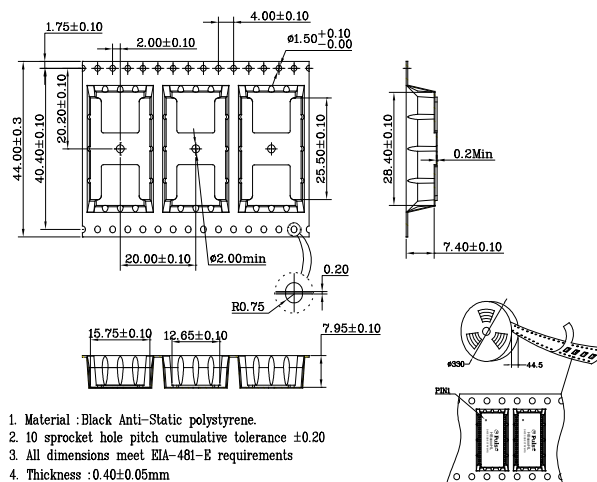
1. Material : Black Anti-Static polystyrene.
2. 10 sprocket hole pitch cumulative tolerance ± 0.20
3. All dimensions meet EIA-481-E requirements
4. Thickness : 0.40 ± 0.05
5. Component load per 13" reel : 780pcs

HB4010HLT, HB4011HLT



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 ± 0.05 mm
5. Component load per 13" reel : 350 pcs

HB4012HLT



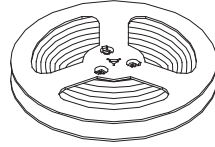
1. Material : Black Anti-Static polystyrene.
2. 10 sprocket hole pitch cumulative tolerance ± 0.20
3. All dimensions meet EIA-481-E requirements
4. Thickness : 0.40 ± 0.05 mm
5. Component load per 13" reel : 350pcs

Single and Dual 2.5Gigabit SMD Modules

HB4009HLT, HB4009HLT, HB4010HLT, HB4011HLT and HB4012HLT

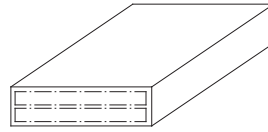
Carton Package

HB4009HLT, HXB4009HLT

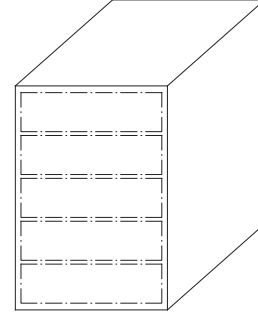


REEL

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

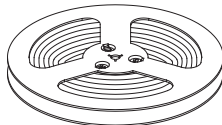


INNER BOX: 347x347x82



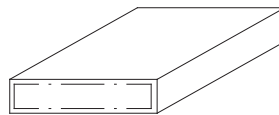
OUTER CARTON: 375x375x470

HB4012HLT, HB4011HLT, HB4010HLT

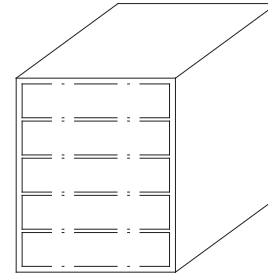


REEL

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



INNER BOX: 347x347x82



OUTER CARTON: 375x375x470

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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