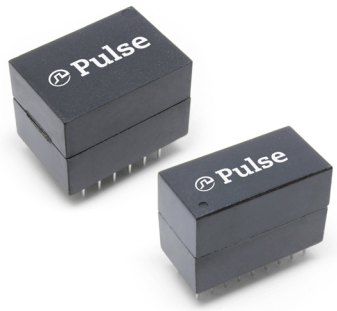
THT Single Port 1Gigabit DIP Magnetic Modules

HB5601NL, HB5602NL, HB5604NL and HXB5603NL

Pulse
a YAGEO company



- *THT single port DIP packages in 18 or 24 pin options for PCB Space saving compared to SMD*
- *Meets or exceeds IEEE 802.3ab standard*
- *Industrial Temperature range, <7KV surge*
- *Compatible with all leading PHYs*
- *Fully RoHS compliant*
- *THT Parts Hand or Wave Solder 260°C/5secs (max)*

Electrical Specification @ 25°C (OCL@DC8mA for 100/1000bps)

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				
HB5601NL	350	-1.0	-16	-(10-20 log10(f/80))	-	0° to 70°	1500Vrms	-
HB5602NL	350	-1.1	-16	-(10-20 log10(f/80))	-	0° to 70°	4000Vrms	Surge DM2.5KV/CM 6KV
HB5604NL	350	-1.1	-16	-(10-20 log10(f/80))	-	0° to 70°	1500Vrms	-

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	1-40MHz	40< f ≦ 100 MHz				
HXB5603NL	350	-1.1	-16	-(10-20 log10(f/80))	-	-40° to 85°	1500Vrms	Surge DM 7KV

Process and Materials

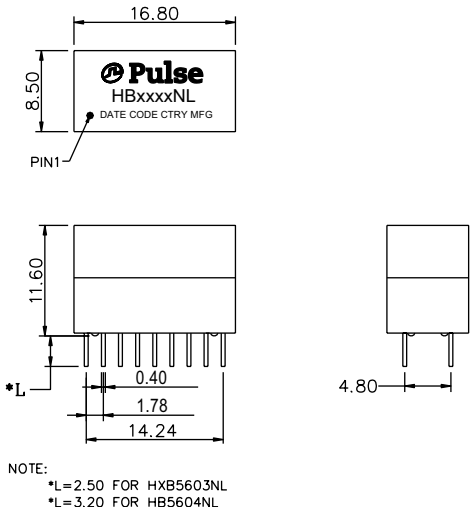
Notes:

1. Storage Temperature:
   HBxxxxNL = -20 to +125°C
   HXBxxxxNL = -50 to +125°C
2. Compliance to JEDEC-J-STD 020:
   i. Moisture Sensitive Level 1
3. All parts are packaged in tubes - see page 3 for details
4. Header: Black Thermoset Plastic - Material flammability rating UL 94V-0
5. Lead Frame: Copper-clad Steel
6. Underplate / Overplate: Tin electro-deposited over Nickel
7. Finish: Matte finish Tin solder

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Mechanicals

HB5604NL, HXB5603NL

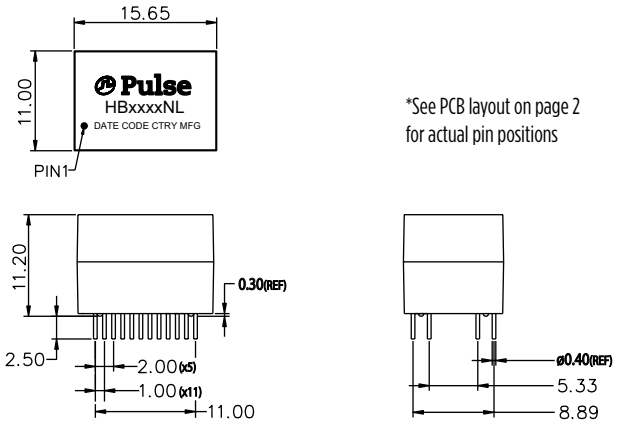


NOTE:
*L=2.50 FOR HXB5603NL
*L=3.20 FOR HB5604NL

Dimensions: mm

Unless otherwise specified the following tolerances apply:
xx.xx = ±0.25
x.xx = ±025
0.xx = ±0.13

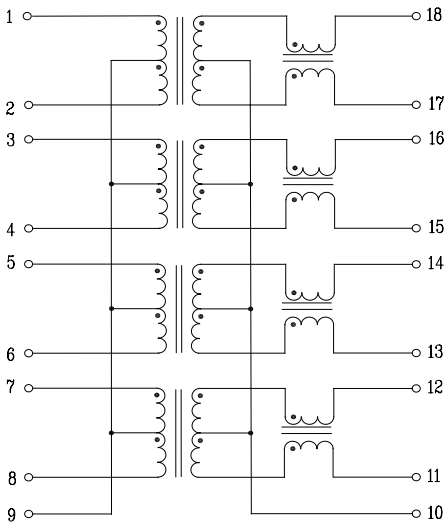
HB5601NL,HB5602NL



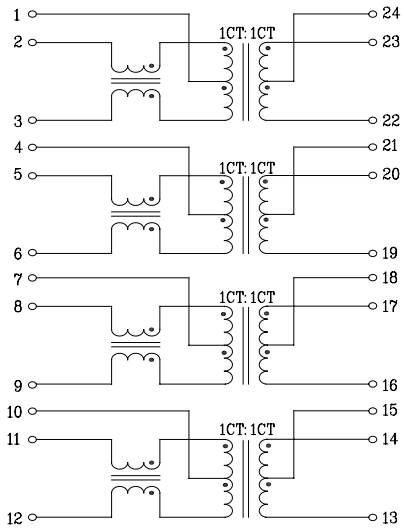
*See PCB layout on page 2 for actual pin positions

Schematics

HB5604NL, HXB5603NL

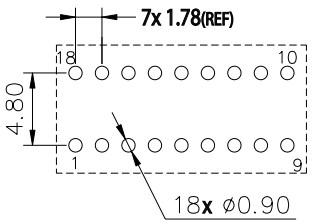


HB5601NL, HB5602NL



PCB Layout mounting Hole (Top View)

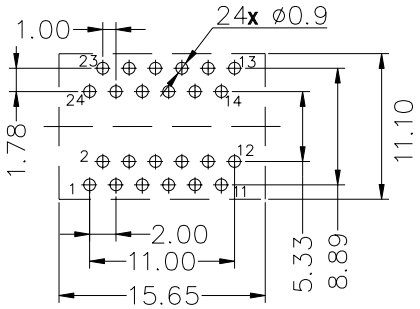
HB5604NL, HXB5603NL



Dimensions: mm

Unless otherwise specified, all tolerances are ± 0.08

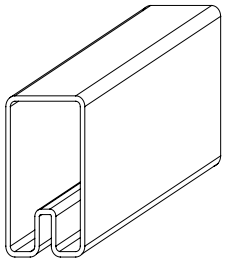
HB5601NL,HB5602NL



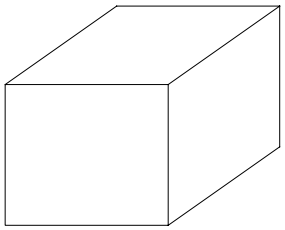
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Carton Package

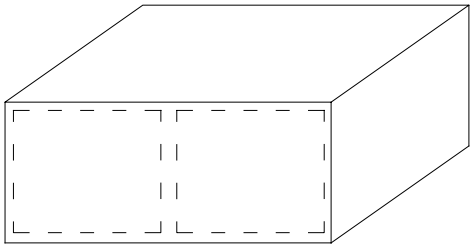
HB5604NL, HXB5603NL



TUBE



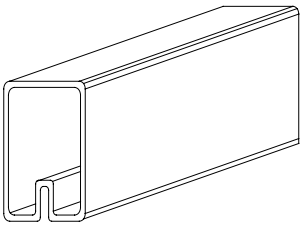
INNER BOX: 567x135x125



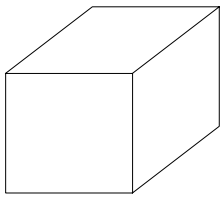
OUTER CARTON: 598x287x150

1. 1 TUBE=31PCS
2. 1 INNER BOX=70 TUBES=2170PCS
3. 1 OUTER CARTON=2 INNER BOXES=4340PCS

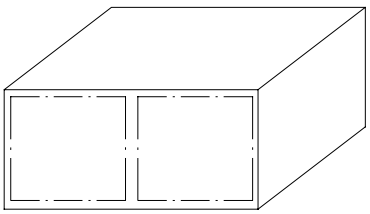
HB5601NL, HB5602NL



TUBE



INNER BOX: 567x135x125



OUTER CARTON: 598x287x150

1. TUBE=32PCS
2. INNER BOX=54 TUBES=1728PCS
3. OUTER CARTON=2 INNER BOXES=3456PCS

For More Information:

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