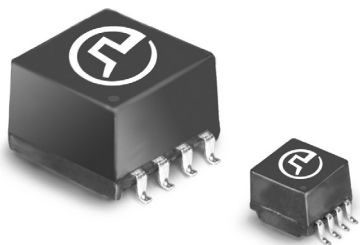




SMT COMMON MODE CHOKES

for PoE+ Applications



-  RoHS peak reflow temperature rating 245°C
-  Meets IEEE 802.3 specification

Electrical Specifications @ 25°C - Operating Temperature -0°C to +70°C

| Part Number ^{1, 2, 3} | SRF (TYP) | MAX Inter-winding Capacitance (pF) | Leakage Inductance (μH MAX) | OCL (±35%) | DC Resistance (Ω MAX) | Impedance Curves ⁴ |
|--------------------------------|-----------|------------------------------------|-----------------------------|------------|-----------------------|-------------------------------|
| H6500NL | 110 MHz | 8 | 0.12 | 15 μH | 0.15 | 1 |
| H6501NL | 60 MHz | 15 | 0.15 | 30 μH | 0.20 | 2 |
| H6502NL | 42 MHz | 18 | 0.20 | 60 μH | 0.25 | 3 |
| H6503NL | 26 MHz | 25 | 0.25 | 100 μH | 0.30 | 4 |
| H6504NL | 7.0 MHz | 10 | 0.20 | 250 μH | 0.18 | 5 |
| H6505NL | 5.5 MHz | 18 | 0.25 | 500 μH | 0.28 | 6 |
| H6506NL | 2.6 MHz | 30 | 0.30 | 1 mH | 0.35 | 7 |
| H6507NL | 300 MHz | 120 | 1.0 | 20 mH | 1.50 | 8 |

Notes:

- Turns Ratio: (1 - 4) : (5 - 8) = 1:1 (±3%)
- Between channel isolation: 500 VAC @ 60 seconds
- Polarity: per schematic
- For Tape & Reel** packaging, add a "T" suffix to the end of the part number when ordering (i. e. **H6500NL** becomes **H6500NLT**).
- See charts page 2

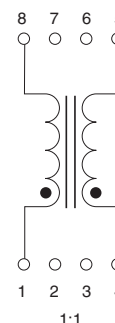
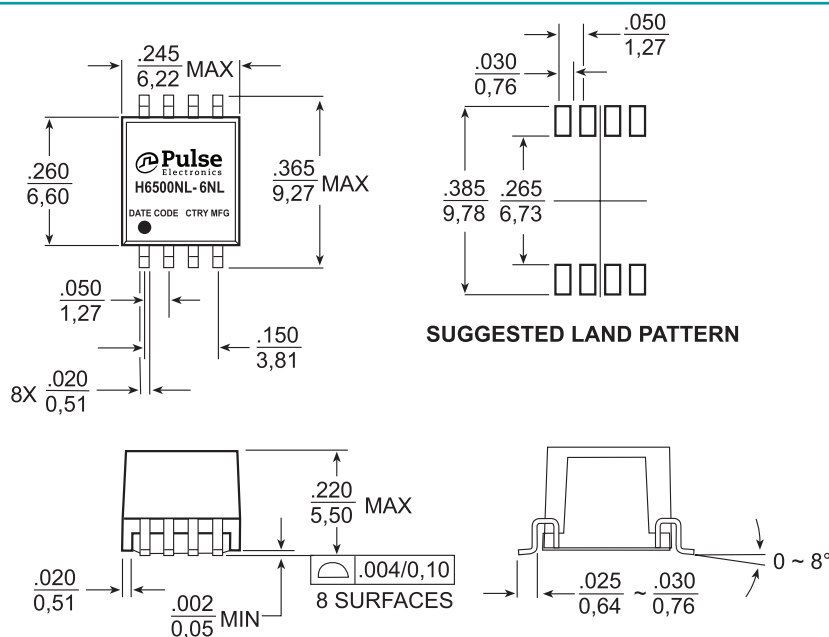
SMT COMMON MODE CHOKES

for PoE+ Applications

Mechanicals

Schematics

H6500NL-H6506NL



Weight0.4 grams

Tape & Reel750

Tube85

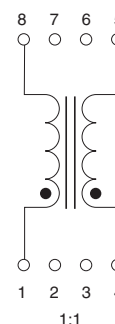
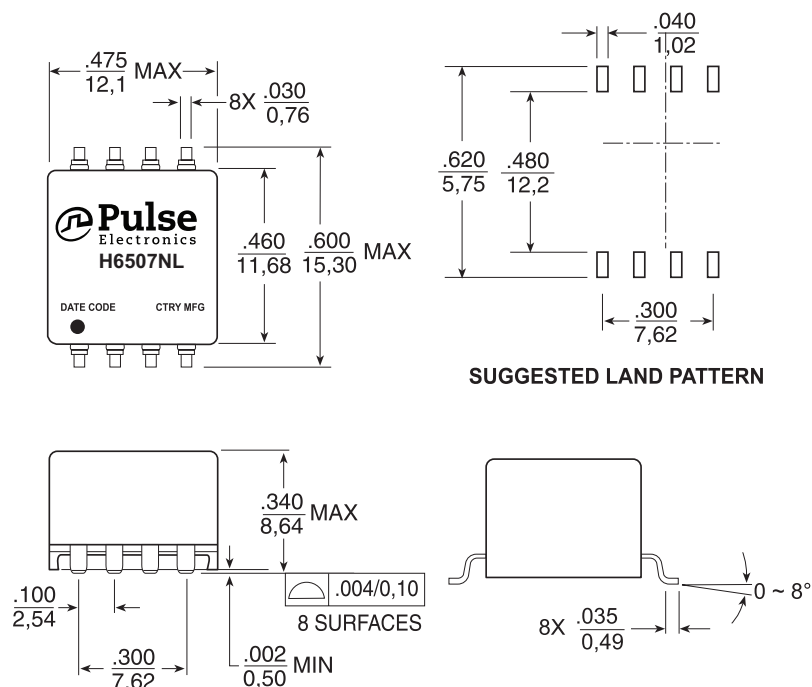
Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \begin{matrix} .010 \\ 0.25 \end{matrix}$

Mechanicals

Schematics

H6507NL



Weight1.8 grams

Tape & Reel250

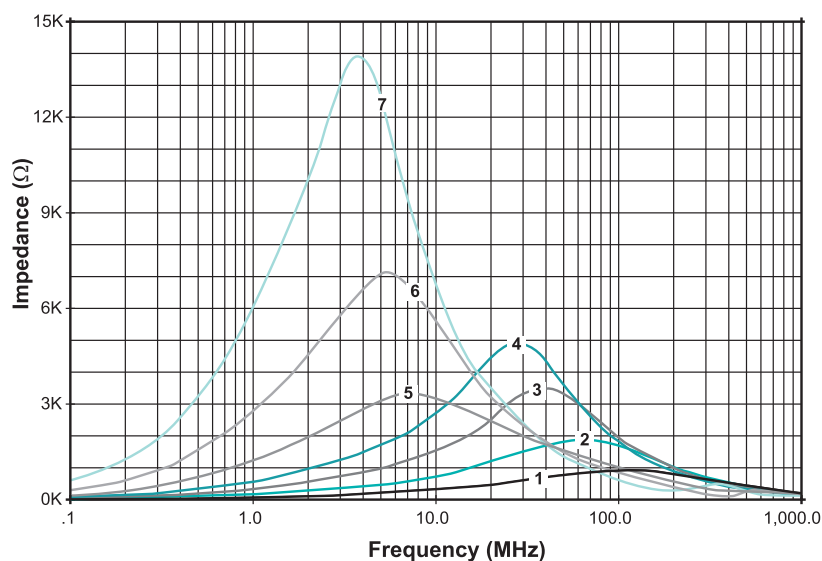
Tube40

SMT COMMON MODE CHOKES

for PoE+ Applications

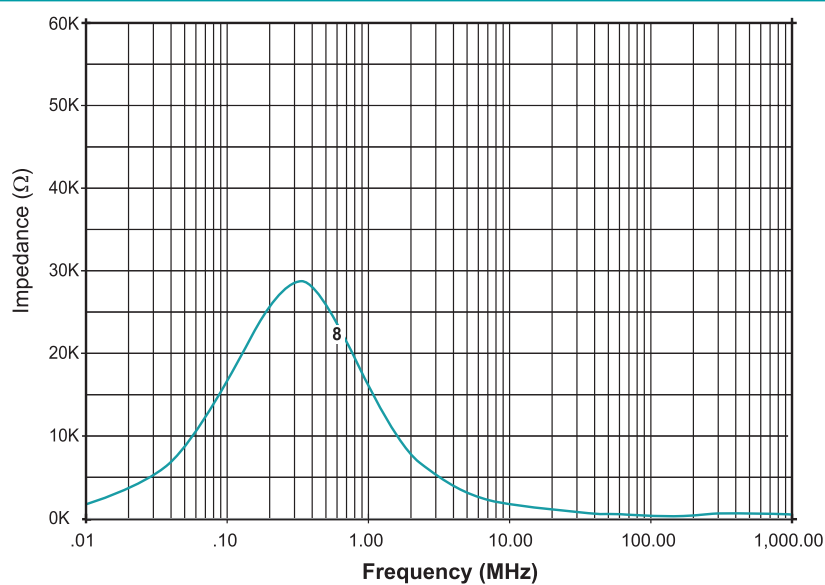
Impedance Curves

H6500NL-H6506NL



Impedance Curves

H6507NL



For More Information:

Americas - prodinfonetworkamericas@pulseelectronics.com | Europe - comms-Apps-Europe@pulseelectronics.com | Asia - prodinfonetworkapac@pulseelectronics.com

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[H6506NL](#) [H6501NL](#) [H6500NL](#)