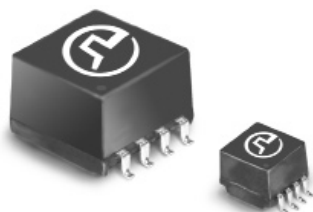


# SMT COMMON MODE CHOKES

for PoE Applications



 RoHS-6 peak reflow temperature rating  
245°C

 Meets IEEE 802.3 specification

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

| Part Number <sup>1, 2, 3</sup> | SRF (TYP) | MAX Inter-winding Capacitance (pF) | Leakage Inductance (μH MAX) | OCL (±35%) | DC Resistance (Ω MAX) | Impedance Curves <sup>4</sup> |
|--------------------------------|-----------|------------------------------------|-----------------------------|------------|-----------------------|-------------------------------|
| H6030NL                        | 120 MHz   | 8                                  | 0.12                        | 15 μH      | 0.20                  | 1                             |
| H6031NL                        | 65 MHz    | 15                                 | 0.15                        | 30 μH      | 0.28                  | 2                             |
| H6032NL                        | 40 MHz    | 18                                 | 0.20                        | 60 μH      | 0.35                  | 3                             |
| H6033NL                        | 28 MHz    | 25                                 | 0.25                        | 100 μH     | 0.40                  | 4                             |
| H6034NL                        | 7.1 MHz   | 10                                 | 0.20                        | 250 μH     | 0.30                  | 5                             |
| H6035NL                        | 5.6 MHz   | 18                                 | 0.25                        | 500 μH     | 0.40                  | 6                             |
| H6036NL                        | 3.9 MHz   | 30                                 | 0.30                        | 1 mH       | 0.50                  | 7                             |

## Notes:

1. Turns Ratio: (1 - 4) : (5 - 8) = 1:1 (±3%)
2. Between channel isolation: 500 VAC @ 60 seconds
3. Polarity: per schematic
4. **For Tape & Reel** packaging, add a "T" suffix to the end of the part number when ordering (i. e. **H6030NL** becomes **H6030NLT**).
5. See charts page 2

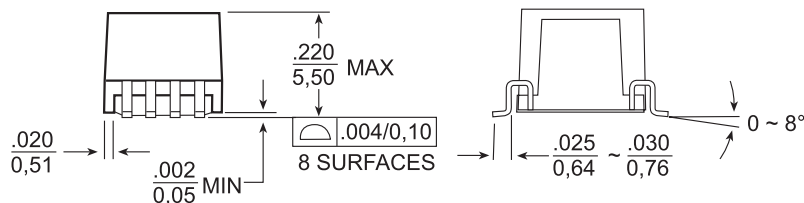
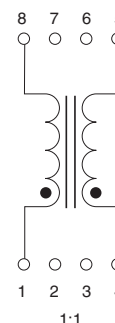
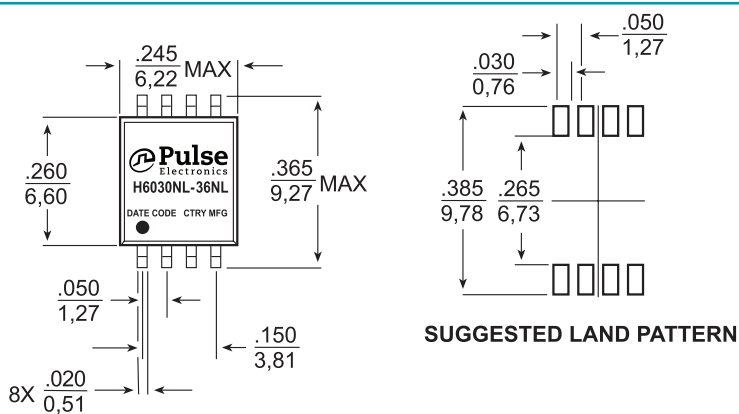
# SMT COMMON MODE CHOKES

for PoE Applications

## Mechanicals

## Schematics

### H6030NL-H6036NL



Weight .....0.4 grams

Tape & Reel .....750

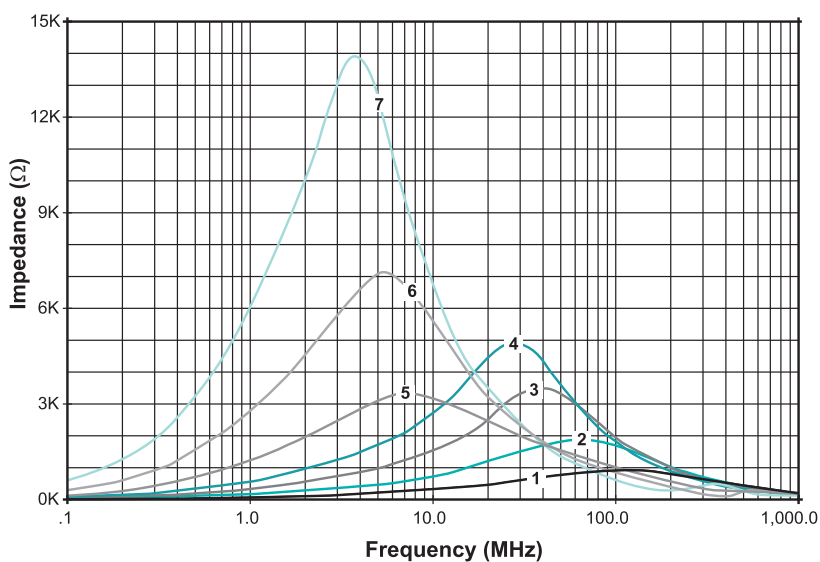
Tube .....85

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

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

## Impedance Curves

### H6030NL-H6036NL



# SMT COMMON MODE CHOKES

*for PoE Applications*

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## For More Information:

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