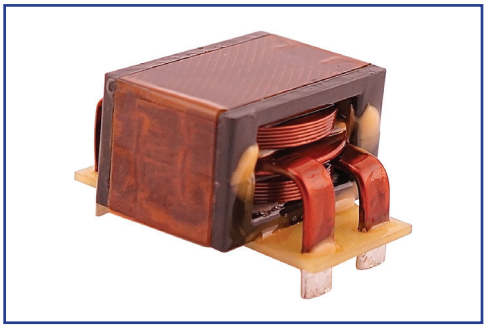
# HIGH CURRENT PLANAR TRANSFORMER

## HP30 SERIES



- High Current, Flat Wire Planar Transformer
- Superior heat dissipation compared with traditional designs
- Rated Power: 500W - 1000W, Full Bridge
- Hi-pot: 2.5KVrms (Pri to Sec), 500Vrms (winding to core)
- Operating Temperature -40ºC to +130ºC
- RoHS Compliant Product
- Custom Design Available

## ELECTRICAL PARAMETERS @ 25°C

| PART NUMBER | OCL (1-2) (µH MIN) | LEAKAGE L (1-2) (µH MAX) | TURNS RATIO PRI : SEC ±5% | DCR (1-2) (mΩ MAX) | DCR (3-5) (mΩ MAX) | SRF (1-2) (MHz MIN) | SEC PINS (mm) |
|---|---|---|---|---|---|---|---|
| HP30-11 | 5.0 | 0.5 | 1 : 1 | 1.0 | 1 | 2.0 | 1.20x5.0 |
| HP30-12 | 5.0 | 0.5 | 1 : 2 | 1.0 | 3 | 2.0 | 0.60x5.0 |
| HP30-13 | 5.0 | 0.5 | 1 : 3 | 1.0 | 5 | 2.0 | 0.55x5.0 |
| HP30-14 | 5.0 | 0.5 | 1 : 4 | 1.0 | 8 | 2.0 | 0.40x4.5 |
| HP30-15 | 5.0 | 0.5 | 1 : 5 | 1.0 | 10 | 2.0 | 0.40x4.5 |
| HP30-16 | 5.0 | 0.5 | 1 : 6 | 1.0 | 12 | 2.0 | 0.35x4.5 |

**Note:**
1. Inductance measured at 1MHz, 1Vrms
2. Leakage Inductance measured at 1MHz, 1Vrms (3-5 shorted)
3. Polarity: 1 & 5 are in phase
4. ET Max (1-2): 60V-µS

| SWITCHING FREQUENCY (KHz) | OUTPUT POWER MAX (Watts) | INPUT VOLTAGE MAX (V) | INPUT CURRENT MAX (A) | OUTPUT VOLTAGE VS. CURRENT (V / A) | MAX TEMP RISE (ºC) |
|---|---|---|---|---|---|
| 250 | 600 | 50 | 25 | ref Turns Ratio | 50 |
| 500 | 960 | 80 | 25 | ref Turns Ratio | 50 |
| 1000 | 1500 | 120 | 25 | ref Turns Ratio | 50 |

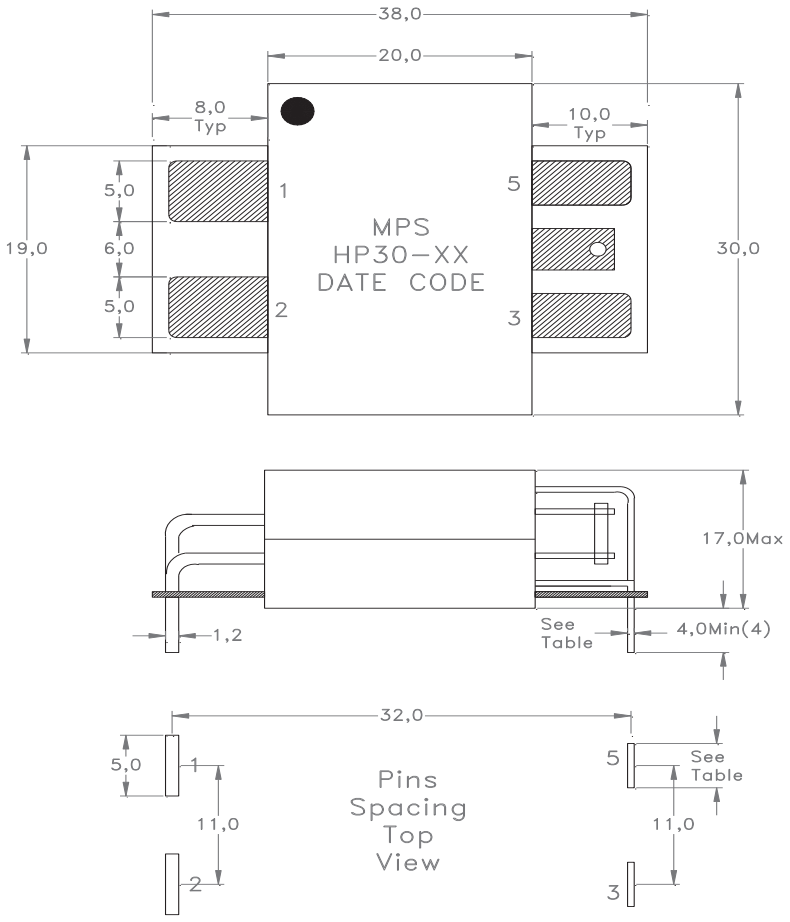
Product performance is limited to specified parameters. Data is subject to change without prior notice.

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sales@mpsind.com

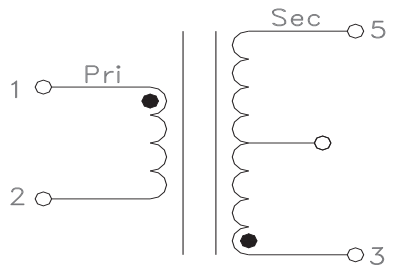
# HIGH CURRENT PLANAR TRANSFORMER

**HP30 SERIES**

## DIMENSIONS (mm)




## SCHEMATIC




**Dimensions**
Unless otherwise specified, all tolerances are:
inch: .XX : ±0.015 .XXX : ±0.005
mm: X,X : ±0,38 X,XX : ±0,13

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