

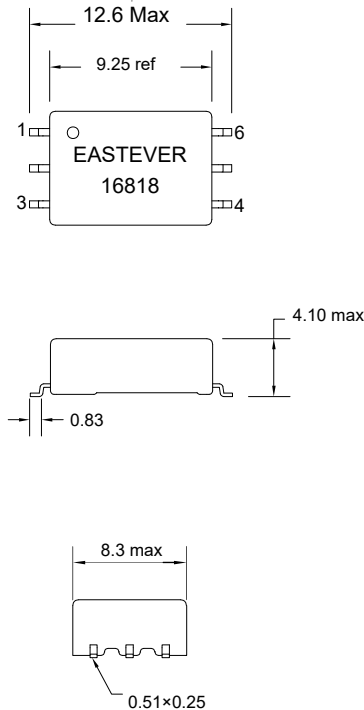
# Push-Pull Transformer

## EPF-1208-16818

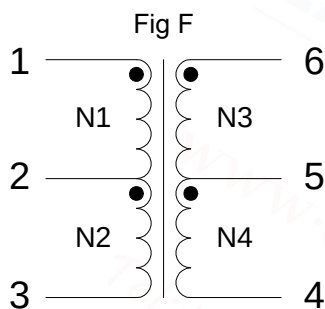
2024-11-28 Rev. 0



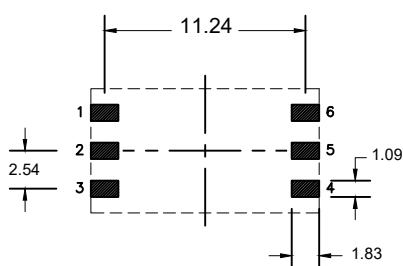
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Features

- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40 up to +125 °C
- Storage Conditions (for single parts):-20 up to +60 °C
- Storage Conditions (in original packaging):< 40 °C ; < 75 % RH

### Applications

- Solar inverters
- Process control
- AC motor drives
- Medical equipment
- Industrial automation
- Polyphase energy meters
- Protection relays and IEDs
- Isolated gate driver power supplies
- PLC analog and digital I/O modules
- RS-232, SPI, I2C, lower-power LAN
- Uninterruptible power supplies (UPS)
- Isolated interface power supply for CAN, RS-485, RS-422

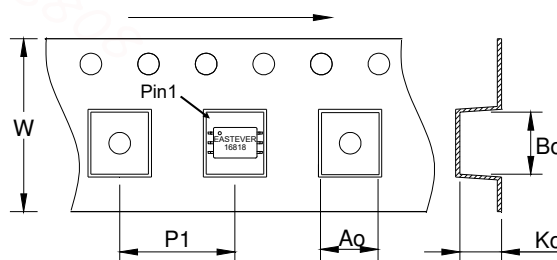
### Electrical Properties: @ 25°C

| Properties              |       | Test conditions         | Value | Unit  | Tol. |
|-------------------------|-------|-------------------------|-------|-------|------|
| Inductance              | L     | N1+N2/<br>10 kHz/ 10 mV | 86    | μH    | min. |
| Turns Ratio             | n     | N1+N2 : N3+N4           | 1:3.5 |       |      |
| DC Resistance 1         | RDC 1 | N1+N2/ 20 °C            | 0.1   | Ω     | max. |
| DC Resistance 2         | RDC 2 | N3+N4/ 20 °C            | 0.44  | Ω     | ±20% |
| Voltage-Time            | [Udt  | N1/ bipolar waveform    | 9     | Vμs   |      |
| Leakage Inductance      | LS    | N1+N2/ 100 kHz/ 100 mV  | 200   | nH    | typ. |
| Insulation Test Voltage | VT    | N1,2 => N3,4            | 2500  | V(AC) |      |

### Typical Application:

| Properties          |                     | Value | Unit   |
|---------------------|---------------------|-------|--------|
| Input               | V <sub>in</sub>     | 5     | V (DC) |
| Output Current 1    | V <sub>Out1</sub>   | 15-17 | V (DC) |
| Output Current 1    | I <sub>Out1</sub>   | 380   | A      |
| Switching Frequency | f <sub>switch</sub> | 400   | kHz    |

### Carrier Tape Orientation



### Tape & Reel Information

| Parameter    | Units | Value |
|--------------|-------|-------|
| Qty per reel | PCS   | 500   |
| Reel Size    | mm    | 330   |
| Tape Width   | mm    | 24.00 |
| P1           | mm    | 16.00 |
| Ao           | mm    | 8.30  |
| Bo           | mm    | 12.60 |
| Ko           | mm    | 4.10  |