

Push-Pull Transformer - MPT13638

MEISONGBEI



Application

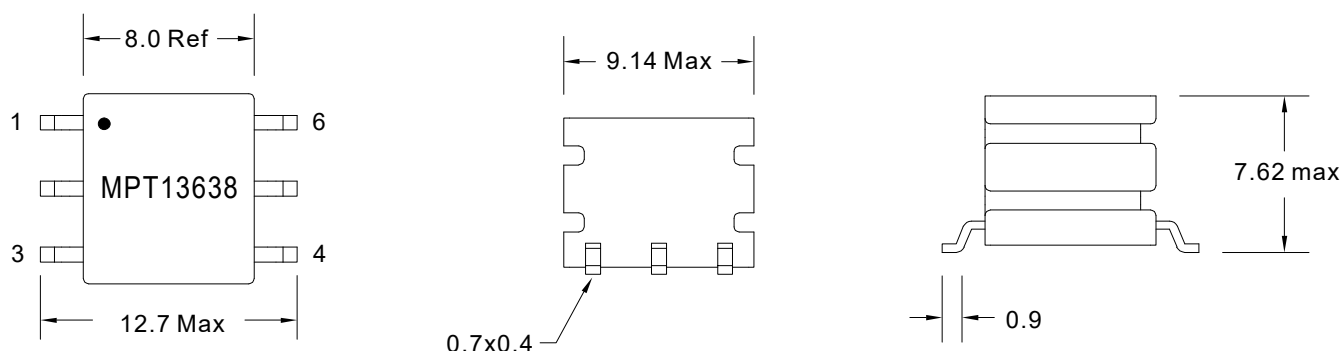
- Industrial automation
- PLC analog and digital I/O modules
- Isolated gate driver power supplies
- AC motor drives
- Uninterruptible power supplies (UPS)
- Solar inverters
- Polyphase energy meters
- Protection relays and LEDs

General Specifications

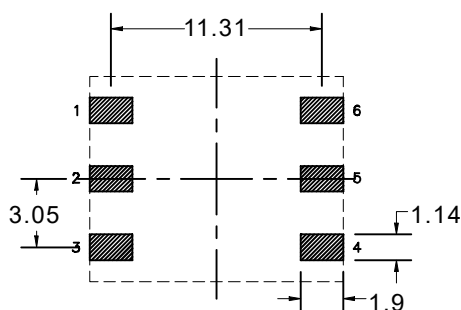
- 260°C Reflow Compatible
- Moisture Sensitivity Level(MSL): 1
- Package: 500pcs/Reel
- Storage temp range: -20°C to +60°C
- Operating temp range: -40°C to +125°C



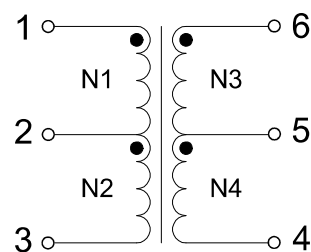
► Dimensions & Configurations (Unit:mm)



► Land Patterns(mm)



► Schematic



Turns Ratio: $N1+N2:N3+N4 = 1:1.3$

► Electrical Characteristics @ 25°C

Part Number	Inductance $L(N1+N2)/$ 100kHz, 10mVAC	DCR1 (N1+N2)	DCR2 (N3+N4)	Voltage-μSecond N1/ bipolar waveform	Interwinding Capacitance (N1,2=>N3,4)	Hi-pot N1,2=>N3,4
MPT13638	340uH min	0.35Ω max	0.33Ω max	10Vμs	4.75 pF typ.	5000Vrms

Typical Application 1:

Input Voltage: **5V(DC)**

Output Voltage 1: **5V(DC)**, Output Current 1: **0.65A**

Switching Frequency: 300-620kHz

Input: N1/N2 , Output 1: N3/N4

Typical Application 2:

Input Voltage: **5V(DC)**

Output Voltage 1: **3.3V(DC)**, Output Current 1: **0.65A**

Switching Frequency: 300-620kHz

Input: N3/N4 , Output 1: N1/N2