

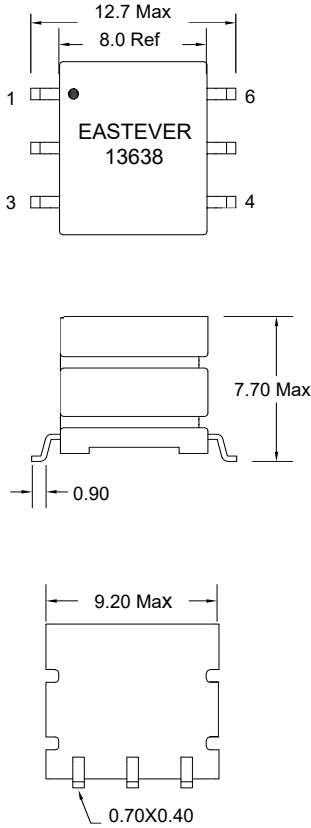
Push-Pull Transformer

EPF-1209-13638

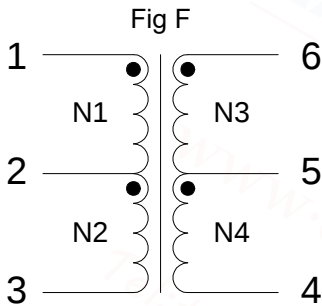
2024-11-28 Rev. 0



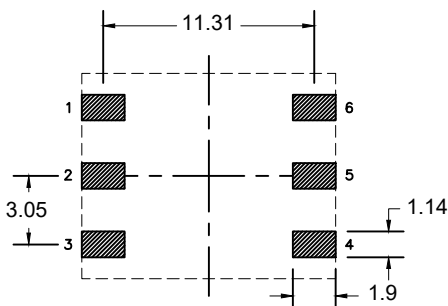
Outline Drawing(mm)



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/ 100 kHz/10 mVAC	340	μH	min.
Turns Ratio	n	N1+N2 : N3+N4	1:1.3		
DC Resistance 1	RDC 1	N1+N2/ 20 °C	0.35	Ω	max.
DC Resistance 2	RDC 2	N3+N4/ 20 °C	0.33	Ω	max.
Voltage-μSecond	Udt	N1/ bipolar waveform	10	Vμs	
Interwinding Capacitance	C _{WW}	N1,2 => N3,4/ 100 kHz/ 10 mV	4.75	pF	typ.
Insulation Test Voltage	V _T	N1,2 => N3,4	5000	V(RMS)	

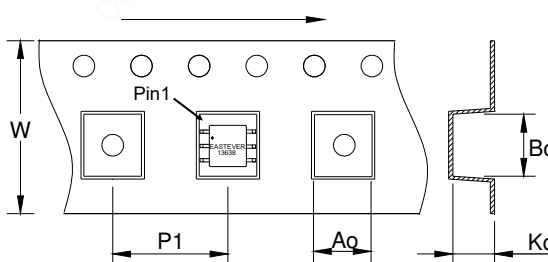
Typical Application1:

Properties		Value	Unit
Input	V _{in}	5	V (DC)
Output Current 1	V _{Out1}	5	V (DC)
Output Current 1	I _{Out1}	0.65	A
Switching Frequency	f _{switch}	300 - 620	kHz

Typical Application2:

Properties		Value	Unit
Input	V _{in}	5	V (DC)
Output Current 1	V _{Out1}	3.3	V (DC)
Output Current 1	I _{Out1}	0.65	A
Switching Frequency	f _{switch}	300 - 620	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
A0	mm	9.20
B0	mm	12.70
K0	mm	8.00