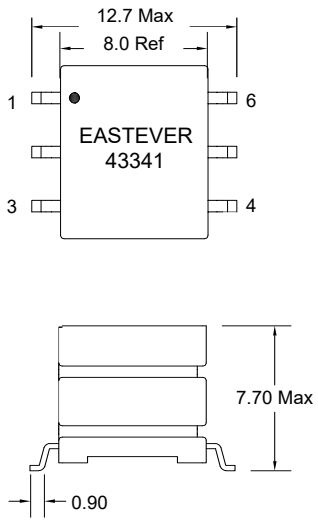
Push-Pull Transformer

EPF-1209-43341

2024-11-28 Rev. 0

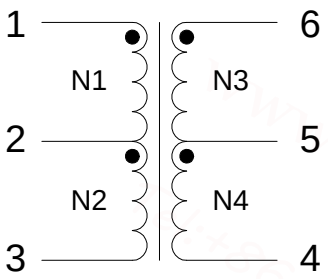
RoHS COMPLIANT

Outline Drawing(mm)

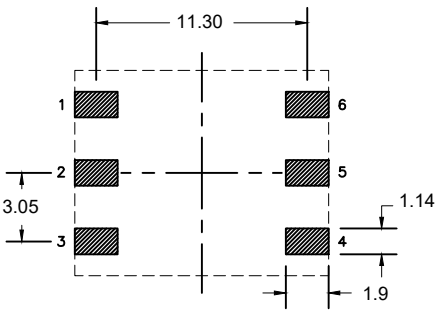


Electrical structure

Fig F



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

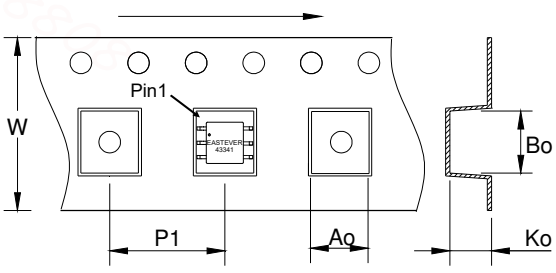
Electrical Properties: @ 25℃

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	N1+N2/ 100 kHz/10 mVAC	152	μH	min.
Turns Ratio	n	N1+N2 : N3+N4	1:2:57		
DC Resistance 1	$R_{DC\,1}$	N1+N2/ 20 °C	0.3	Ω	max.
DC Resistance 2	$R_{DC\,2}$	N3+N4/ 20 °C	0.53	Ω	max.
Voltage-Time	∫Udt	N1/ bipolar waveform	7.8	Vμs	
Insulation Test Voltage	VT	N1.2 => N3.4	5000	V(RMS)	

Typical Application:

Properties		Value	Unit
Input	V_{in}	5	V (DC)
Output Current 1	V_{Out1}	12.5	V (DC)
Output Current 1	I_{Out1}	0.35	A
SwitchingFrequency	f_{switch}	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	9.20
Bo	mm	12.70
Ko	mm	8.00