

Push-Pull Transformer

2024-12-27 Rev. 0



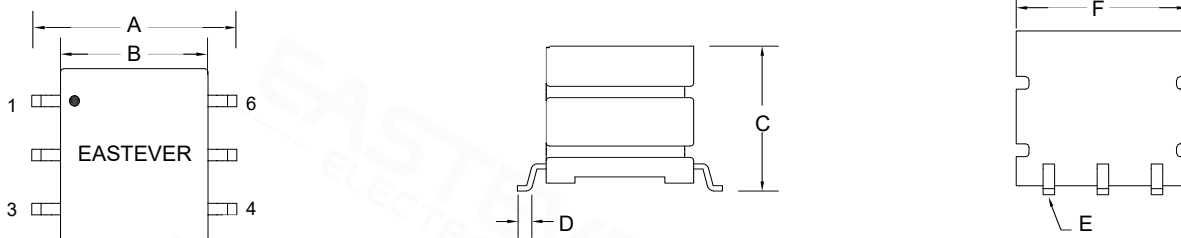
A.Features

- 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

B.Applications

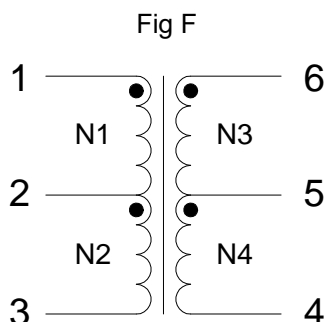
- Solar inverters
- Process control
- AC motor drives
- Medical equipment
- Industrial automation
- Polyphase energy meters
- Protection relays and IEDs
- Isolated gate driver power supplies
- PLC analog and digital I/O modules
- RS-232, SPI, I2C, lower-power LAN
- Uninterruptible power supplies (UPS)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

C.Outline Drawing(mm)

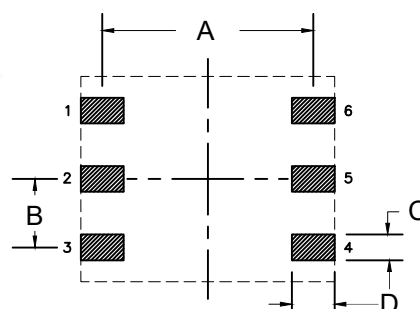


Item	A	B	C	D	E	F
EPF-1512-Series	15.41 Max	10.4 ref	11.89 max	0.92	12.32 max	0.81X0.4
EPF-1209-Series	12.70 Max	8.0 ref	7.70 max	0.90	9.20 Max	0.70X0.4

D.Electrical structure



E.Recommended layout(mm)



Item	EPF-1512-Series	EPF-1209-Series
A	13.74	11.31
B	3.81	3.05
C	1.40	1.14
D	1.90	1.90

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F. Electrical Properties

1.EPF-1512-Series

EASTEVER Part Number	Inductance (uH) Min	DCR (25°C)		Turns Rati N1+N2:N3+N4	Voltage-Time V(μs)	Interwinding Capacitance (pF) Typ	Insulation Test Voltage N1,2=>N3,4 V(rms)
		N1+N2 (Ω) max	N3+N4 (Ω) max				
EPF-1512-15240	440	0.15	0.15	1:1.1	46	18	5000
EPF-1512-16031	370	0.16	0.35	1:2.0	40	/	5000
EPF-1512-16032	370	0.16	0.40	1:1.3	40	/	5000
EPF-1512-16033	370	0.16	0.11	1.3:1	40	/	5000
EPF-1512-19927	570	0.15	0.09	2:1.0	50	/	5000

2.EPF-1209-Series

EASTEVER Part Number	Inductance (uH) Min	DCR (25°C)		Turns Rati N1+N2 : N3+N4	Voltage-Time V(μs)	Interwinding Capacitance (pF) Typ	Insulation Test Voltage N1,2=>N3,4 V(rms)
		N1+N2 (Ω) max	N3+N4 (Ω) max				
EPF-1209-13626	340	0.44	0.59	1:2.0	10	5.50	5000
EPF-1209-13734	340	0.41	0.33	1:1.1	10	5.25	5000
EPF-1209-13638	340	0.35	0.33	1:1.3	10	4.75	5000
EPF-1209-13769	340	0.42	0.48	1:1.7	10	5.50	5000
EPF-1209-15229	380	0.30	0.30	1:1.1	8.8	/	5000
EPF-1209-15230	380	0.30	0.34	1:1.4	8.8	/	5000
EPF-1209-15231	380	0.30	0.41	1:1.6	8.8	/	5000
EPF-1209-15232	380	0.56	0.49	1:2.0	8.8	/	5000
EPF-1209-19845	340	0.36	0.40	1:1.6	5.5	/	5000
EPF-1209-20340	200	0.41	1.50	1:3.5	16	/	6000
EPF-1209-42879	200	0.33	0.75	1:3.5	9.0	/	5000
EPF-1209-43341	150	0.30	0.53	1:2.6	7.8	/	5000
EPF-1209-43725	250	0.36	0.87	1:3.9	9.0	/	5000

- Test condition: 100 kHz/10mV, All data is tested based on 25°C ambient temperature.
- Operating Temperature: -40°C to +105°C (Temperature rise included).
- Storage condition: Temperature 5 to 40°C.