

MN-300 SERIES

MINNTRONIX

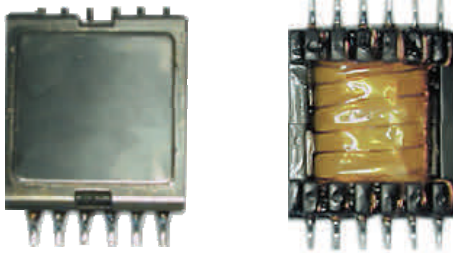
Wind Up the Best®

Power Over Ethernet (PoE) Transformer

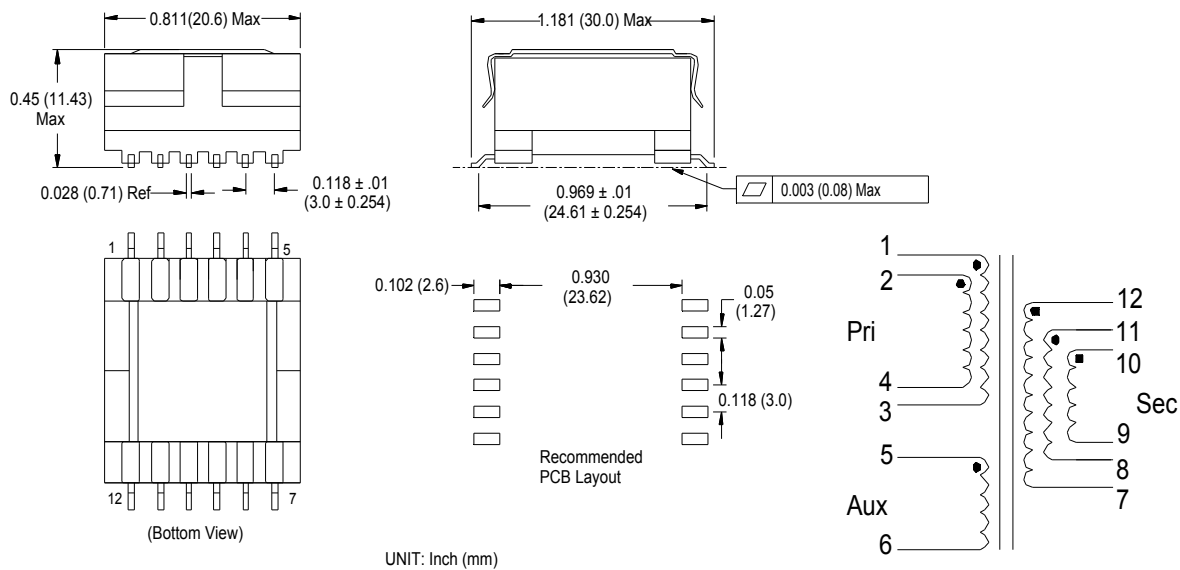


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- Power rating: 30W PoE per IEEE 802.3at.
- Optimized for 250kHz with 36-72 Vin
- 1500Vrms isolation (Pri-Sec)
- Ambient temperature -40°C to +125°C
- Operating/storage temp. range: -40°C to +125°C
- 12V Auxiliary winding



Mechanical Dimensions:



Electrical Specification at 25°C

Part Number	Inductance ¹ at 0 A ± 10% (uH)	Inductance at Isat (uH min)	DCR ² (W max)			Leakage Inductance ³ (uH max)	Isat (Adc)	Turns Ratio ⁴		Output ⁵
			pri	sec	aux			pri:sec	pri:aux	
MN-300-001	42.0	37.8	0.070	0.0023	0.220	3.00	2.6	1 : 0.10	1 : 0.35	3.3V, 9A
MN-300-002	42.0	37.8	0.069	0.005	0.225	1.60	2.6	1 : 0.15	1 : 0.35	5V, 6A
MN-300-003	42.0	37.8	0.061	0.015	0.195	0.545	2.6	1 : 0.32	1 : 0.32	12V, 2.5A
MN-300-004	42.0	37.8	0.060	0.037	0.195	0.430	2.6	1 : 0.58	1 : 0.32	19.5V, 1.5A
MN-300-005	42.0	37.8	0.060	0.055	0.195	0.310	2.6	1 : 0.68	1 : 0.32	24V, 1.25A

1. Inductance is measured at 250kHz, 0.7Vrms, 0Adc.
2. Pri and Sec DCR is specified with the windings connected in parallel.
3. Leakage inductance is for the primary winding with the secondary windings shorted. (at 250kHz 0.7Vrms).
4. Turns ratio is with the primary and the secondary windings connected in parallel.
5. Output is with the secondary windings connected in parallel. Output of the auxiliary winding is 12V.

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