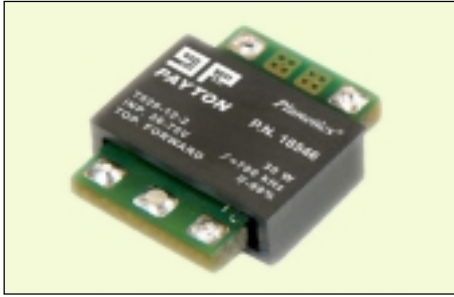




OFF THE SHELF SMT PLANAR TRANSFORMERS



- ☆ Power Range: up to 40 W.
- ☆ Topology: Forward with resonant reset or active clamp.
- ☆ Footprint: 18.8mm * 15.2 mm - Max.
- ☆ Height: 6.60 mm - Max.
- ☆ Frequency range: 400 kHz to 1000 kHz.
- ☆ Input voltage of power stage: 36 ÷ 75 Vdc link.
- ☆ Pri./Sec. isolation (operational): 1800 Vdc.
- ☆ Operating temperature: -40°C to +85°C.

Electrical Specifications @ 25°C										
Part Number	Output Voltage & Current	Primary Side				Secondary Side		Turns Ratio	Duty Cycle Max.	Pri. to Sec. Capacitance Max. [pF]
		Number of Turns	Inductance Nominal [μH]	Leak. Ind. Maximum [μH]	DCR Max. [mΩ]	Number of Turns	DCR Max. [mΩ]			
50430	3.3 V @ 12 A	12	216	0.5	70	2	3	12:2	0.642	130
50431	5.0 V @ 8 A	12	216	0.5	70	3	8	12:3	0.62	130
50432	8.0 V @ 5 A ÷	12	216	0.5	70	6	30	12:6	0.592	130
	10.0 V @ 4 A									
50433	12 V @ 3.3 A ÷	12	216	0.5	70	8	55	12:8	0.655	130
	15 V @ 2.67 A									
50434	16 V @ 2.5 A ÷	12	216	0.5	70	10	70	12:10	0.626	130
	18 V @ 2.2 A	12	216	0.5	70	10	70	12:10	0.626	130

Mechanical Specifications

RECOMMENDED P.C.B. LAYOUT (VIEW IN MOUNTING DIRECTION)

ELECTRICAL DIAGRAM

WEIGHT: TAPE & REEL: 4.0 grams / 400/reel

DIMENSIONS: UNLESS OTHERWISE SPECIFIED, ALL TOLERANCES ARE: ±0.1 [0.004] mm [inches]

Notes: 1) The Transformer should be attached to a Heat Sink (PCB with Aluminum substrate) with a 85°C maximum temperature.
 2) The transformer hot spot temperature can be calculated as: $T_{hotspot} = T_{thesink} + 20 * P_{losses} [W]$.

