



OFF THE SHELF SMT PLANAR TRANSFORMERS

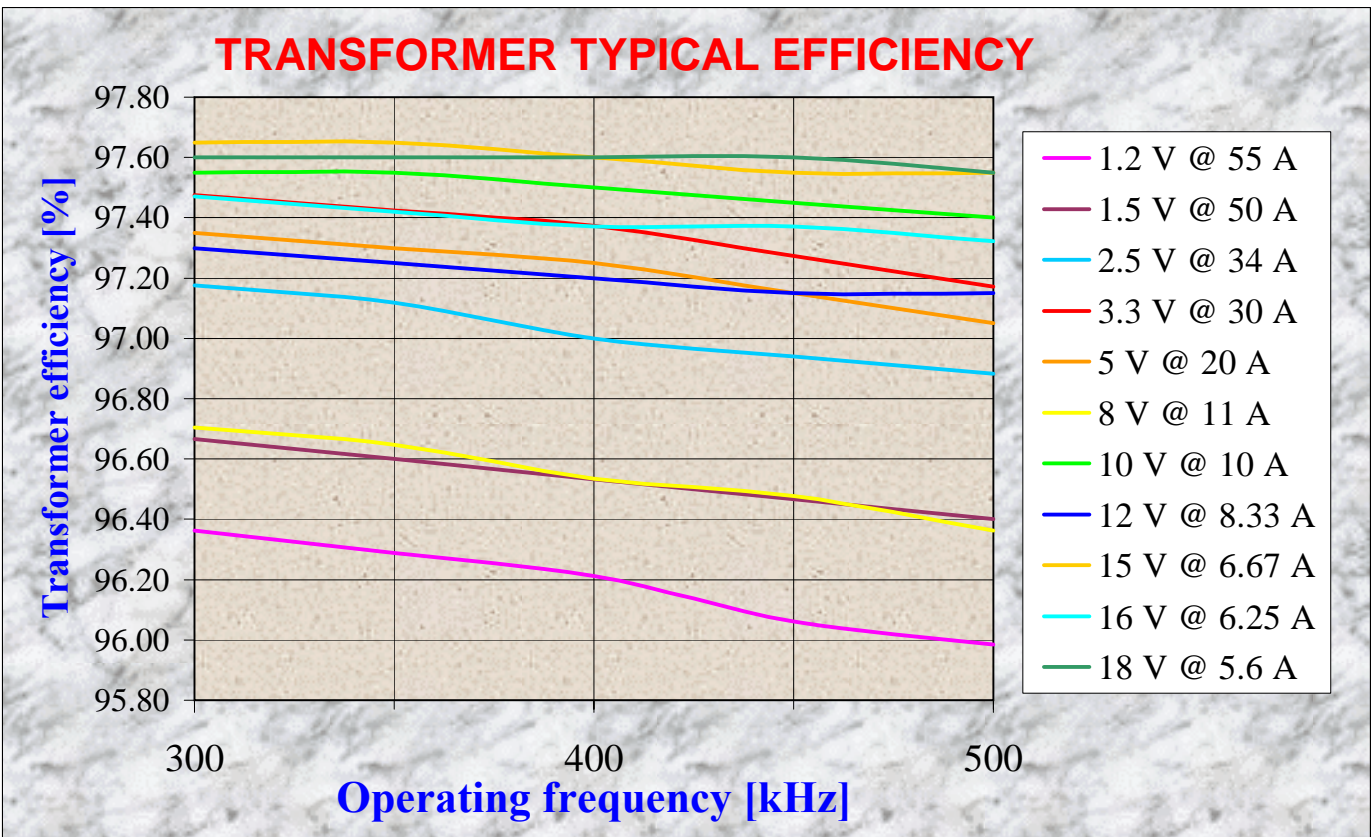


- ☆ Power Range: up to 100 W.
- ☆ Topology: Forward with resonant reset or active clamp.
- ☆ Footprint: 23.5mm * 20.1 mm - Max.
- ☆ Height: 7.37 mm - Max.
- ☆ Frequency range: 300 kHz to 500 kHz.
- ☆ Input voltage of power stage: 18 ÷ 36 Vdc link.
- ☆ Pri./Sec. isolation (operational): 1800 Vdc.
- ☆ Operating temperature: -40°C to +85°C.

Electrical Specifications @ 25°C											
Part Number	Fig.	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]			
50465	1a	1.2 V @ 55 A ÷ 1.5 V @ 50 A	6	79	0.15	10	1 // 1	0.5//0.5	6:1:1	0.686	150
50465	1b	2.5 V @ 34 A ÷ 3.3 V @ 30 A	6	79	0.15	10	1 + 1	0.5+0.5	6:1:1	0.651	150
50466	2	5.0 V @ 20 A	6	79	0.15	10	3	2.4	6:3	0.629	150
50467	3	8.0 V @ 11 A ÷ 10.0 V @ 10 A	6	79	0.15	10	6	16	6:6	0.6	200
50468	3	12 V @ 8.33 A ÷ 15 V @ 6.67 A	6	79	0.1	10	8	22	6:8	0.664	250
50469	3	16 V @ 6.25 A ÷ 18 V @ 5.6 A	6	79	0.1	10	10	30	6:10	0.634	250

Notes: 1) The Transformer has to 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: $T_{hotspot} = T_{heatsink} + 15 * P_{losses} [W]$.



Mechanical Specifications and Electrical diagrams

