



OFF THE SHELF SMT PLANAR TRANSFORMERS



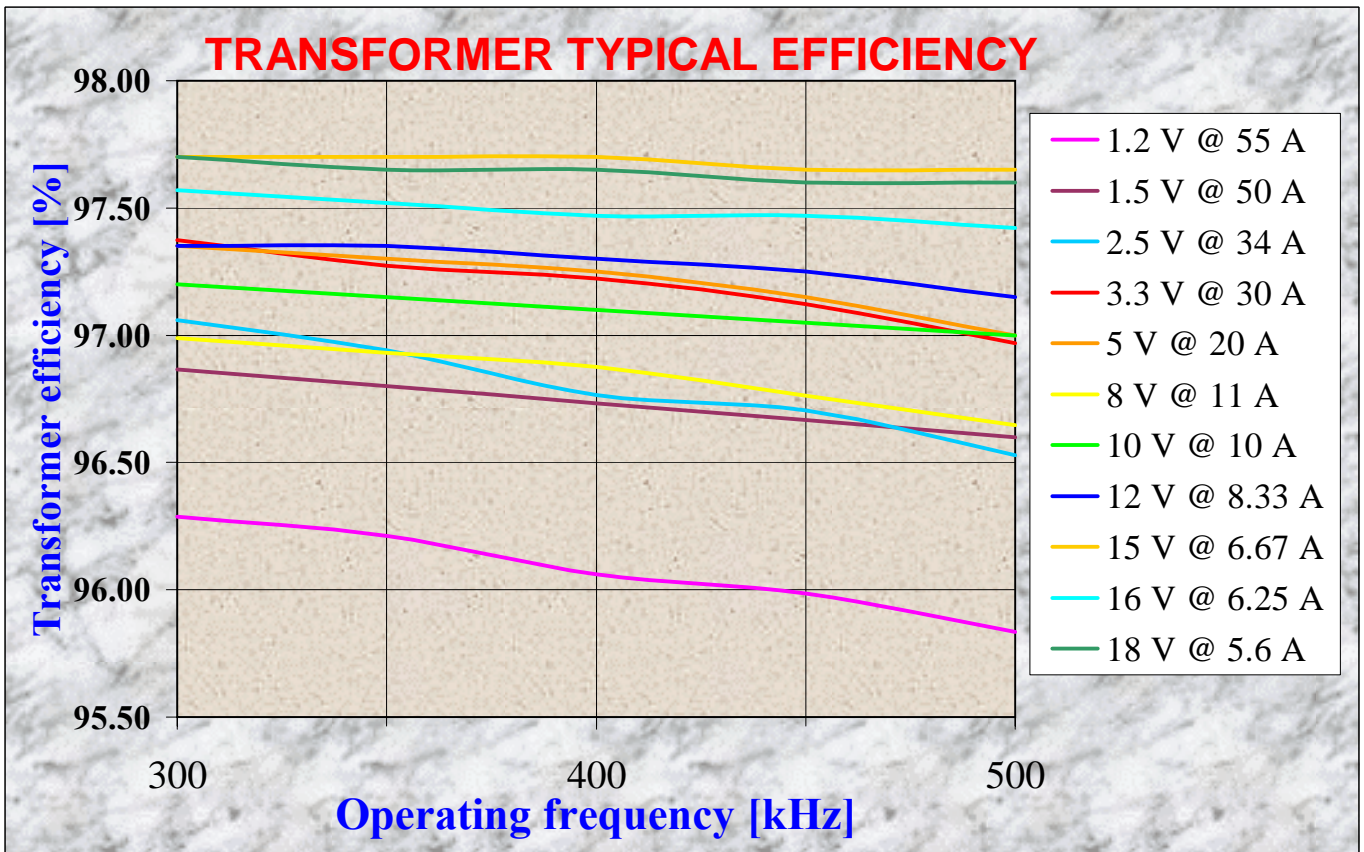
- ☆ Power Range: up to 100 W.
- ☆ Topology: Forward with resonant reset or active clamp.
- ☆ Footprint: 23.5mm * 20.1 mm - Max.
- ☆ Height: 7.37 mm - Max.
- ☆ Frequency range: 300 kHz to 500 kHz.
- ☆ Input voltage of power stage: 36 ÷ 75 Vdc link.
- ☆ Pri./Sec. isolation (operational): 1800 Vdc.
- ☆ 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]			
50460	1a	1.2 V @ 55 A ÷ 1.5 V @ 50 A	12	316	0.8	40	1 // 1	0.5//0.5	12:1:1	0.642	150
50460	1b	2.5 V @ 34 A ÷ 3.3 V @ 30 A	12	316	0.8	40	1 + 1	0.5+0.5	12:1:1	0.642	150
50461	2	5.0 V @ 20 A	12	316	0.6	40	3	2.4	12:3	0.62	150
50462	3	8.0 V @ 11 A ÷ 10.0 V @ 10 A	12	316	0.3	40	6	16	12:6	0.592	200
50463	3	12 V @ 8.33 A ÷ 15 V @ 6.67 A	12	316	0.25	40	8	22	12:8	0.655	250
50464	3	16 V @ 6.25 A ÷ 18 V @ 5.6 A	12	316	0.25	40	10	30	12:10	0.625	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

