

HIGH FREQUENCY 30W PLANAR TRANSFORMERS

TP18 SERIES

FEATURES:

- Power Rating Up to 30 Watts
- High Efficiency
- Footprint 19.60 mm × 18.0 mm
- Lower Profile of 7.4 mm
- High Isolation (operational) 1500 Vdc
- High Frequency 300 kHz–3.0 MHz
- Operating Temperature –40°C to +125°C

OPTIONS:

- Weight: 5.30 grams
- Tape & Reel: 250/reel
- Tube: 20/tube

COMMON APPLICATIONS:

- High efficiencies, high power density of 400 watts per cubic inch DC/DC converters.
- For forward, full-bridge, half-bridge and push-pull DC/DC converters.
- Input voltages between 18V and 75V, and output voltages from 18V down to 1.2V DC/DC converters.
- Telecommunications, industrial control systems,
- Automotive and heavy equipment vehicle systems

ELECTRICAL CHARACTERISTICS:

Part Number	Primary Inductance (uH Min)	Leakage Inductance (uH Max)	DC Resistance (mΩ Max)				Turns Ratio		Primary Second Hi-Pot	Figure	M. Height
			Primary			Secondary	Primary	Secondary			
			A	B	AUX.						
TP18D0601	48.0	0.50	50.0	N/A	N/A	1.50	6T	1T//1T	1500VDC	A	7.4mm
TP18D0602	48.0	0.50	50.0	N/A	N/A	3.00	6T	1T+1T	1500VDC	A	7.4mm
TP18D0603	48.0	0.40	50.0	N/A	N/A	20.0	6T	3T	1500VDC	B	7.4mm
TP18D0606	48.0	0.40	50.0	N/A	N/A	40.0	6T	6T	1500VDC	C	7.4mm
TP18D0608	48.0	0.30	50.0	N/A	N/A	60.0	6T	8T	1500VDC	C	7.4mm
TP18D0610	48.0	0.30	50.0	N/A	N/A	80.0	6T	10T	1500VDC	C	7.4mm
TP18D1201	190	1.50	156	N/A	N/A	1.50	12T	1T//1T	1500VDC	A	7.4mm
TP18D1202	190	1.50	156	N/A	N/A	3.00	12T	1T+1T	1500VDC	A	7.4mm
TP18D1203	190	1.30	156	N/A	N/A	20.0	12T	3T	1500VDC	B	7.4mm
TP18D1206	190	1.30	156	N/A	N/A	40.0	12T	6T	1500VDC	C	7.4mm
TP18D1208	190	1.15	156	N/A	N/A	60.0	12T	8T	1500VDC	C	7.4mm
TP18D1210	190	1.15	156	N/A	N/A	80.0	12T	10T	1500VDC	C	7.4mm

APPLICATION OF CONFIGURATION

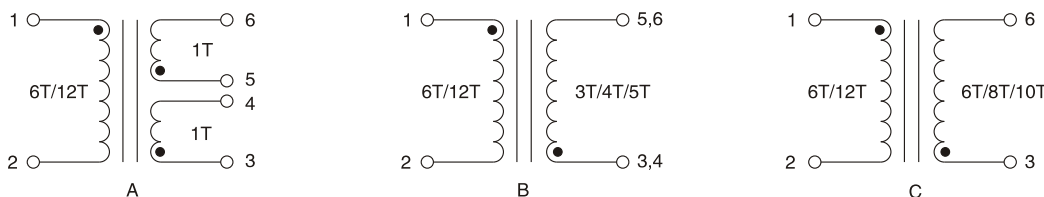
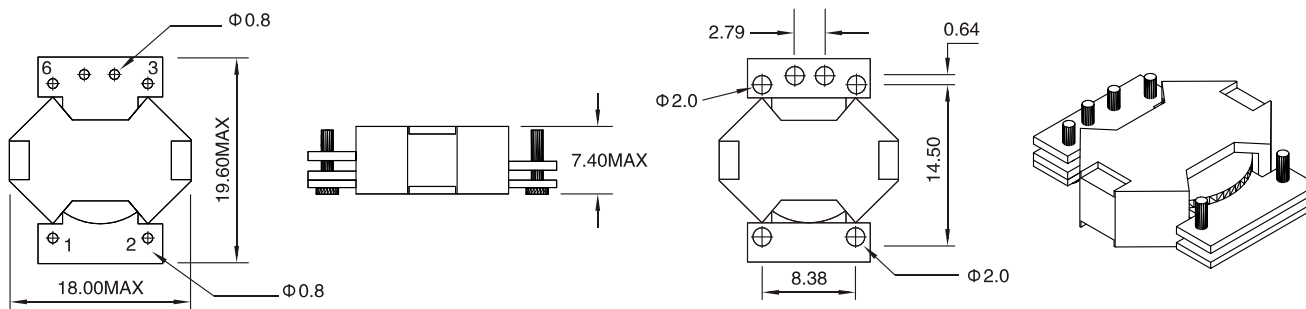
Part Number	Vin	Vout & Iout
TP18S0601	18–36Vdc	1.2V@25.0A–1.8V@16.7A
TP18S0602	18–36Vdc	2.5V@12.0A–3.3V@9.00A
TP18D0603	18–36Vdc	5.0V@6A
TP18D0606	18–36Vdc	8.0V@3.75A–10V@3.00A
TP18D0608	18–36Vdc	12V@2.50A–15V@2.00A
TP18D0610	18–36Vdc	16V@1.88A–18V@1.67A
TP18D1201	36–75Vdc	1.2V@25.0A–1.8V@16.7A
TP18D1202	36–75Vdc	2.5V@12.0A–3.3V@9.00A
TP18D1203	36–75Vdc	5.0V@6A
TP18D1206	36–75 Vdc	8.0V@3.75A–10V@3.00A
TP18D1208	36–75 Vdc	12V@2.50A–15V@2.00A
TP18D1210	36–75 Vdc	16V@1.88A–18V@1.67A

This is a matrix of the winding configurations. They are ideally suited to hand between 15–30W of power supply on DC–CD converters application.

TECHNICAL INFORMATION

1. The inductance is measured between Pin (1–2) at 100 kHz, 100 mVrms
2. The leakage inductance is measured in primary winding Pin(1–2) with secondary winding shorted.
3. All specifications typical at TA=25°C.

PHYSICAL CHARACTERISTICS



SCHEMATIC

Note: All specifications subject to change without notice.