

## HIGH FREQUENCY 30W PLANAR TRANSFORMERS PT18 SERIES



### Features:

- Power rating up to 30 watts
- High efficiency
- Footprint: 19.60 mm x 18.00 mm
- Low profile: 7.4 mm Max
- High operational isolation: 1500 Vdc
- High frequency: 300 kHz - 3.0MHz
- Operating temperature: -40°C to +125°C

### Options:

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

### Common Applications:

- High efficiency, high power density DC/DC converters
- Forward, full-bridge, half-bridge, and push-pull DC/DC converters
- DC/DC converters with input voltage between 18V and 75V, and output voltage from 1.2V to 18V
- Telecommunication, industrial control systems, automotive, and heavy equipment vehicle systems

### Electrical Characteristics:

Part Number	Primary Inductance (µH Min)	Leakage Inductance (µH Max)	DC Resistance (m Ω Max)				Turns Ratio			Primary Second Hipot	Figure	M. Height
			Primary			SEC	PRI	SEC				
			A	B	AUX.							
PT18D0601	48.0	0.50	50.0	N/A	N/A	1.50	6T	1T//1T	1500VDC	A	7.4mm	
PT18D0602	48.0	0.50	50.0	N/A	N/A	3.00	6T	1T+1T	1500VDC	A	7.4mm	
PT18D0603	48.0	0.40	50.0	N/A	N/A	20.0	6T	3T	1500VDC	B	7.4mm	
PT18D0606	48.0	0.40	50.0	N/A	N/A	40.0	6T	6T	1500VDC	C	7.4mm	
PT18D0608	48.0	0.30	50.0	N/A	N/A	60.0	6T	8T	1500VDC	C	7.4mm	
PT18D0610	48.0	0.30	50.0	N/A	N/A	80.0	6T	10T	1500VDC	C	7.4mm	
PT18D1201	190	1.50	156	N/A	N/A	1.50	12T	1T//1T	1500VDC	A	7.4mm	
PT18D1202	190	1.50	156	N/A	N/A	3.00	12T	1T+1T	1500VDC	A	7.4mm	
PT18D1203	190	1.30	156	N/A	N/A	20.0	12T	3T	1500VDC	B	7.4mm	
PT18D1206	190	1.30	156	N/A	N/A	40.0	12T	6T	1500VDC	C	7.4mm	
PT18D1208	190	1.15	156	N/A	N/A	60.0	12T	8T	1500VDC	C	7.4mm	
PT18D1210	190	1.15	156	N/A	N/A	80.0	12T	10T	1500VDC	C	7.4mm	

### Configuration Application:

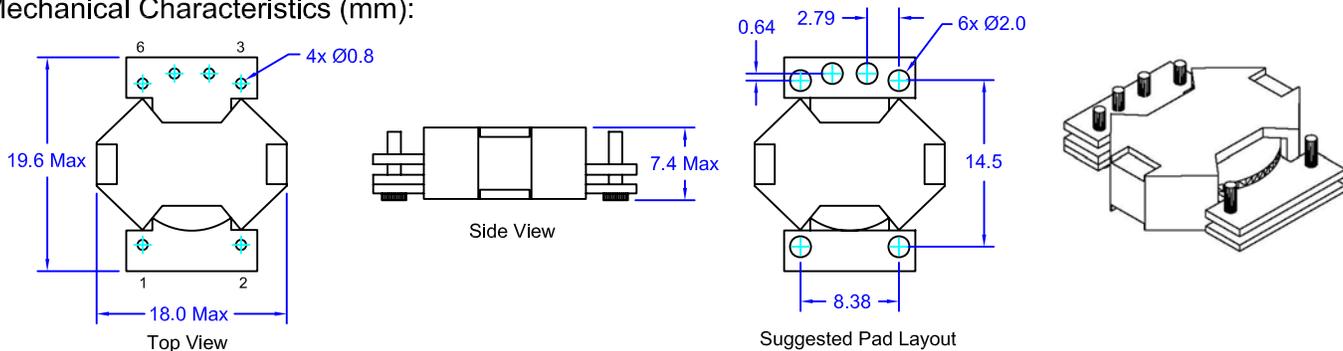
Part Number	Vin	Vout & Iout
PT18D0601	18-36Vdc	1.2V @25.0A-1.8V@16.7A
PT18D0602	18-36Vdc	2.5V@12.0A-3.3V@9.00A
PT18D0603	18-36Vdc	5.0V@6A
PT18D0606	18-36Vdc	8.0V@3.75A-10V@3.00A
PT18D0608	18-36Vdc	12V@2.50A-15V@2.00A
PT18D0610	18-36Vdc	16V@1.88A-18V@1.67A
PT18D1201	36-75Vdc	1.2V@25.0A-1.8V@16.7A
PT18D1202	36-75Vdc	2.5V@12.0A-3.3V@9.00A
PT18D1203	36-75Vdc	5.0V@6A
PT18D1206	36-75Vdc	8.0V@3.75A-10V@3.00A
PT18D1208	36-75Vdc	12V@2.50A-15V@2.00A
PT18D1210	36-75Vdc	16V@1.88A-18V@1.67A

### Technical Information:

1. Inductance is measured between Pins (1-2) at 100kHz, 100mVrms
2. Leakage inductance is measured on primary windings (1-2) with secondary windings shorted
3. Specification typical at TA=25°C

This is a winding configuration matrix. These transformers are ideally suited to handle between 15W-30W of power on DC-DC converter applications

### Mechanical Characteristics (mm):



### Schematic Figure:

