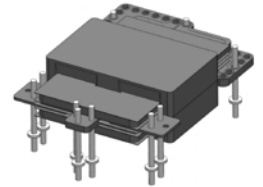


## HIGH FREQUENCY 110W PLANAR TRANSFORMERS PT46 SERIES



### Features:

- Power rating up to 110 watts
- High efficiency
- High power density
- Footprint: 49.0 mm x 38.0 mm
- Low profile: 17.0 mm Max
- High operational isolation: 1500 Vdc
- High frequency: 200 kHz - 700 kHz
- Operating temperature: -40°C to +125°C

### Options:

- Weight: 55.0 grams

### Common Applications:

- High efficiency, high power density DC/DC converters
- Forward, full-bridge, half-bridge, and push-pull DC/DC converters
- A primary auxiliary winding or a small gap can be added in order to expand configuration options
- DC/DC converters with input voltage between 48V and 60V, and output voltage from 1.0V to 50V
- Telecommunication, industrial control systems, automotive, and heavy equipment vehicle systems

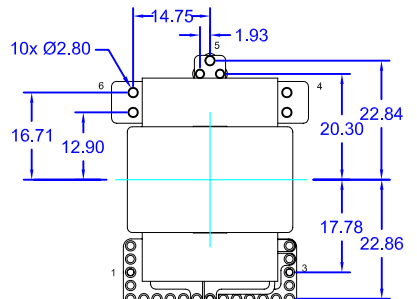
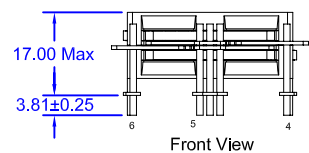
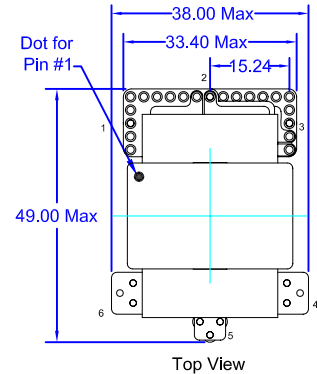
### Electrical Characteristics:

Part Number	Primary Inductance (µH Min)	Leakage Inductance (µH Max)	DC Resistance (m Ω Max)		Turns Ratio		Primary A	Primary B	Primary Second Hpot	Figure	M. Height		
			Primary A+B	SEC (1T)	PRI	SEC							
PT46A0402	50.00	1.5	20	0.4	2T:2T	2 Turns 1T & 1T			1500VDC	A	17.00mm		
PT46A0602	120.0	3.6	30	0.4	3T:3T				1500VDC		17.00mm		
PT46A0802	215.0	6.5	40	0.4	4T:4T				1500VDC		17.00mm		
PT46A1002	340.0	10.2	50	0.4	5T:5T				1500VDC		17.00mm		
PT46A1202	490.0	14.7	60	0.4	6T:6T				1500VDC		17.00mm		
PT46A1403	660.0	19.8	70	0.4	7T:7T				1500VDC		17.00mm		
PT46A1602	870.0	26.1	80	0.4	8T:8T				1500VDC		17.00mm		
PT46A1802	1100	33.0	90	0.4	9T:9T				1500VDC		17.00mm		
PT46A2002	1350	40.5	100	0.4	10T:10T				1500VDC		17.00mm		
PT46B0402	50.00	1.5	20	0.4	2T:2T		2 Turns				1500VDC	B	17.00mm
PT46B0602	120.0	3.6	30	0.4	3T:3T				1500VDC	17.00mm			
PT46B0802	215.0	6.5	40	0.4	4T:4T				1500VDC	17.00mm			
PT46B1002	340.0	10.2	50	0.4	5T:5T				1500VDC	17.00mm			
PT46B1202	490.0	14.7	60	0.4	6T:6T				1500VDC	17.00mm			
PT46B1402	660.0	19.8	70	0.4	7T:7T				1500VDC	17.00mm			
PT46B1602	870.0	26.1	80	0.4	8T:8T				1500VDC	17.00mm			
PT46B1802	1100	33.0	90	0.4	9T:9T				1500VDC	17.00mm			
PT46B2002	1350	40.5	100	0.4	10T:10T				1500VDC	17.00mm			
PT46C0402	13.00	0.4	10.0	0.4	N/A	2 Turns 1T & 1T		2	2	1500VDC	C		17.00mm
PT46C0602	30.00	0.9	15.0	0.4	N/A		3	3	1500VDC	17.00mm			
PT46C0802	50.00	1.5	20.0	0.4	N/A		4	4	1500VDC	17.00mm			
PT46C1002	80.00	2.4	25.0	0.4	N/A		5	5	1500VDC	17.00mm			
PT46C1202	120.0	3.6	30.0	0.4	N/A		6	6	1500VDC	17.00mm			
PT46C1402	165.0	5.0	35.0	0.4	N/A		7	7	1500VDC	17.00mm			
PT46C1602	215.0	6.5	40.0	0.4	N/A		8	8	1500VDC	17.00mm			
PT46C1802	275.0	8.3	45.0	0.4	N/A		9	9	1500VDC	17.00mm			
PT46D0402	13.00	0.4	10.0	0.4	N/A		2 Turns	2	2	1500VDC		D	17.00mm
PT46D0602	30.00	0.9	15.0	0.4	N/A			3	3	1500VDC			17.00mm
PT46D0802	50.00	1.5	20.0	0.4	N/A	4		4	1500VDC	17.00mm			
PT46D1002	80.00	2.4	25.0	0.4	N/A	5		5	1500VDC	17.00mm			
PT46D1202	120.0	3.6	30.0	0.4	N/A	6		6	1500VDC	17.00mm			
PT46D1402	165.0	5.0	35.0	0.4	N/A	7		7	1500VDC	17.00mm			
PT46D1602	215.0	6.5	40.0	0.4	N/A	8		8	1500VDC	17.00mm			
PT46D1802	275.0	8.3	45.0	0.4	N/A	9		9	1500VDC	17.00mm			

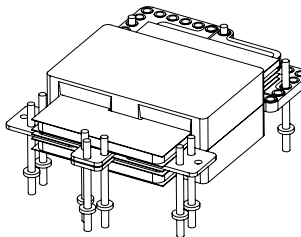
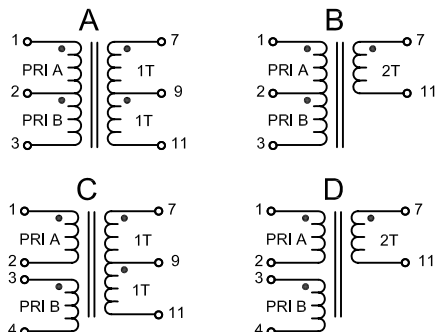
### Technical Information:

1. Inductance is measured on windings from ( 1-3) Fig (A,B) and separated from ( 1-2) and ( 3-4) Fig (C,D)
2. Leakage inductance is measured with the primary windings connected in series where applicable, and all other windings shorted
3. Specification typical at TA=25°C

### Mechanical Characteristics (mm):



### Schematic Figure:



Suggested Pad Lay-Out

