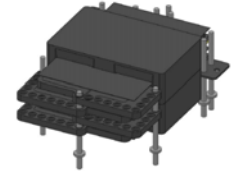


HIGH FREQUENCY 170W PLANAR TRANSFORMERS

PT48 SERIES



Features:

- Power rating up to 170 watts
- High efficiency
- High power density
- Footprint: 49.0 mm x 38.0 mm
- Low profile: 21.0 mm
- High operational isolation: 1500 Vdc
- High frequency: 200 kHz - 700 kHz
- Operating temperature: -40°C to +125°C

Options:

- Weight: 75.0 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

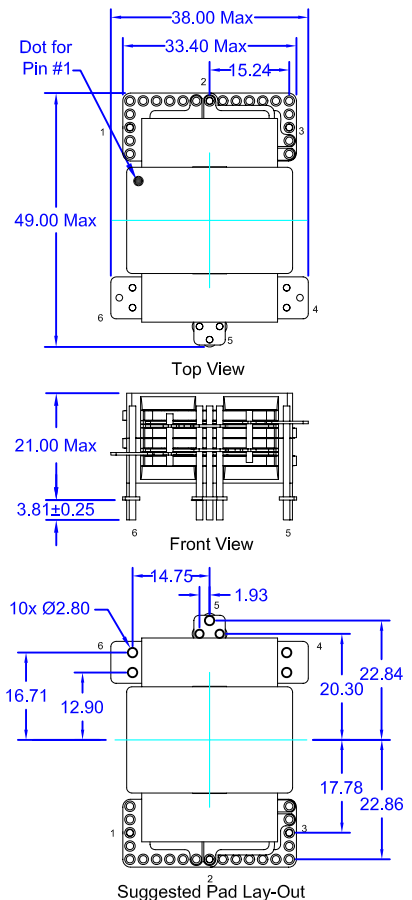
Electrical Characteristics:

Part Number	Primary Inductance (µH Min)	Leakage Inductance (µH Max)	DC Resistance (m Ω Max)		Turns Ratio		Primary A	Primary B	Primary Second Hipot	Figure	M. Height		
			Primary A+B	SEC (1T)	PRI	SEC							
PT48A0404	50.00	1.5	10	0.4	2T:2T	4 Turns 1T:1T:1T:1T			1500VDC	A	21.00mm		
PT48A0604	120.0	3.6	15	0.4	3T:3T				1500VDC		21.00mm		
PT48A0804	220.0	6.6	20	0.4	4T:4T				1500VDC		21.00mm		
PT48A1004	350.0	10.5	25	0.4	5T:5T				1500VDC		21.00mm		
PT48A1204	500.0	15.0	30	0.4	6T:6T				1500VDC		21.00mm		
PT48A1404	680.0	20.4	35	0.4	7T:7T				1500VDC		21.00mm		
PT48A1604	890.0	26.7	40	0.4	8T:8T				1500VDC		21.00mm		
PT48A1804	1130	33.9	45	0.4	9T:9T				1500VDC		21.00mm		
PT48A2004	1400	42.0	50	0.4	10T:10T				1500VDC		21.00mm		
PT48B0404	50.00	1.5	10	0.4	2T:2T		4 Turns 2T:2T			1500VDC	B	21.00mm	
PT48B0604	120.0	3.6	15	0.4	3T:3T				1500VDC		21.00mm		
PT48B0804	220.0	6.6	20	0.4	4T:4T				1500VDC		21.00mm		
PT48B1004	350.0	10.5	25	0.4	5T:5T				1500VDC		21.00mm		
PT48B1204	500.0	15.0	30	0.4	6T:6T				1500VDC		21.00mm		
PT48B1404	680.0	20.4	35	0.4	7T:7T				1500VDC		21.00mm		
PT48B1604	890.0	26.7	40	0.4	8T:8T				1500VDC		21.00mm		
PT48B1804	1130	33.9	45	0.4	9T:9T				1500VDC		21.00mm		
PT48B2004	1400	42.0	50	0.4	10T:10T				1500VDC		21.00mm		
PT48C0404	14.00	0.4	5.0	0.4	N/A	4 Turns 1T:1T:1T:1T		2	2	1500VDC	C	21.00mm	
PT48C0604	30.00	0.9	7.5	0.4	N/A		3	3	1500VDC	21.00mm			
PT48C0804	50.00	1.5	10.0	0.4	N/A		4	4	1500VDC	21.00mm			
PT48C1004	80.00	2.4	12.5	0.4	N/A		5	5	1500VDC	21.00mm			
PT48C1204	120.0	3.6	15.0	0.4	N/A		6	6	1500VDC	21.00mm			
PT48C1404	170.0	5.1	17.5	0.4	N/A		7	7	1500VDC	21.00mm			
PT48C1604	220.0	6.6	20.0	0.4	N/A		8	8	1500VDC	21.00mm			
PT48C1804	280.0	8.4	22.5	0.4	N/A		9	9	1500VDC	21.00mm			
PT48D0404	14.00	0.4	5.0	0.4	N/A		4 Turns 2T:2T	2	2	1500VDC		D	21.00mm
PT48D0604	30.00	0.9	7.5	0.4	N/A			3	3	1500VDC			21.00mm
PT48D0804	50.00	1.5	10.0	0.4	N/A	4		4	1500VDC	21.00mm			
PT48D1004	80.00	2.4	12.5	0.4	N/A	5		5	1500VDC	21.00mm			
PT48D1204	120.0	3.6	15.0	0.4	N/A	6		6	1500VDC	21.00mm			
PT48D1404	170.0	5.1	17.5	0.4	N/A	7		7	1500VDC	21.00mm			
PT48D1604	220.0	6.6	20.0	0.4	N/A	8		8	1500VDC	21.00mm			
PT48D1804	280.0	8.4	22.5	0.4	N/A	9		9	1500VDC	21.00mm			

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:

