

Planar Transformer



HIGH FREQUENCY 30W PLANAR TRANSFORMERS FATP18 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 to +125

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 (m Max)				Turns Ratio		Primary Second Hi-Pot	Figure	M. Height
			Primary			Secondary	Primary	Secondary			
			A	B	AUX.						
FATP18D0601	48.0	0.50	50.0	N/A	N/A	1.50	6T	1T//1T	1500VDC	A	7.4mm
FATP18D0602	48.0	0.50	50.0	N/A	N/A	3.00	6T	1T+1T	1500VDC	A	7.4mm
FATP18D0603	48.0	0.40	50.0	N/A	N/A	20.0	6T	3T	1500VDC	B	7.4mm
FATP18D0606	48.0	0.40	50.0	N/A	N/A	40.0	6T	6T	1500VDC	C	7.4mm
FATP18D0608	48.0	0.30	50.0	N/A	N/A	60.0	6T	8T	1500VDC	C	7.4mm
FATP18D0610	48.0	0.30	50.0	N/A	N/A	80.0	6T	10T	1500VDC	C	7.4mm
FATP18D1201	190	1.50	156	N/A	N/A	1.50	12T	1T//1T	1500VDC	A	7.4mm
FATP18D1202	190	1.50	156	N/A	N/A	3.00	12T	1T+1T	1500VDC	A	7.4mm
FATP18D1203	190	1.30	156	N/A	N/A	20.0	12T	3T	1500VDC	B	7.4mm
FATP18D1206	190	1.30	156	N/A	N/A	40.0	12T	6T	1500VDC	C	7.4mm
FATP18D1208	190	1.15	156	N/A	N/A	60.0	12T	8T	1500VDC	C	7.4mm
FATP18D1210	190	1.15	156	N/A	N/A	80.0	12T	10T	1500VDC	C	7.4mm

APPLICATION OF CONFIGURATION

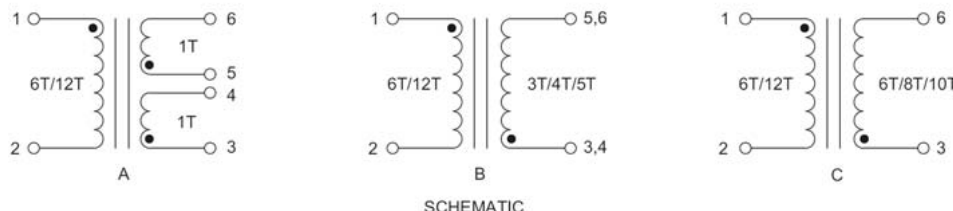
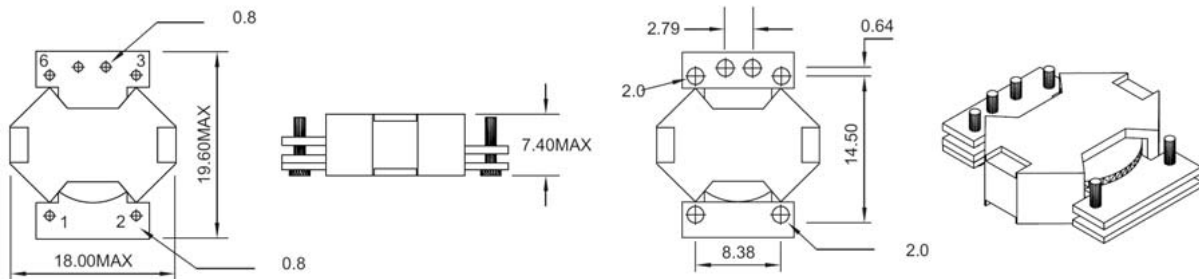
Part Number	Vin	Vout & Iout
FATP18S0601	18-36Vdc	1.2V@25.0A-1.8V@16.7A
FATP18S0602	18-36Vdc	2.5V@12.0A-3.3V@9.00A
FATP18D0603	18-36Vdc	5.0V@6A
FATP18D0606	18-36Vdc	8.0V@3.75A-10V@3.00A
FATP18D0608	18-36Vdc	12V@2.50A-15V@2.00A
FATP18D0610	18-36Vdc	16V@1.88A-18V@1.67A
FATP18D1201	36-75Vdc	1.2V@25.0A-1.8V@16.7A
FATP18D1202	36-75Vdc	2.5V@12.0A-3.3V@9.00A
FATP18D1203	36-75Vdc	5.0V@6A
FATP18D1206	36-75 Vdc	8.0V@3.75A-10V@3.00A
FATP18D1208	36-75 Vdc	12V@2.50A-15V@2.00A
FATP18D1210	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 T_A=25

PHYSICAL CHARACTERISTICS



Note: All specifications subject to change without notice