

Planar Transformer



HIGH FREQUENCY 75W PLANAR TRANSFORMERS FATP20B SERIES

FEATURES:

Power Rating Up to 100 Watts
High Efficiency of Over 98%
Footprint 20.30 mm 18.50 mm
Lower Profile of 6.6 mm
High Isolation (operational) 1500 Vdc
High Frequency 200 kHz-700 kHz
Operating Temperature -40 to +125

OPTIONS:

Weight: 7.60 grams
Tape & Reel: 250/reel
Tube: 20/tube

COMMON APPLICATIONS:

High performance DC/DC converters.
High efficiencies up to over 98 percent, high power density of 500 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.						
FATP20B0601	54	0.20	20.0	N/A	103	1.5&1.5	6T	1T//1T	1500VDC	A	6.6mm
FATP20B0602	54	0.20	20.0	N/A	103	3.00	6T	1T+1T	1500VDC	A	6.6mm
FATP20B0603	54	0.20	20.0	N/A	103	34.5.0	6T	3T	1500VDC	B	6.6mm
FATP20B0606	54	0.20	40.0	N/A	206	8.50	6T	6T	1500VDC	C	6.6mm
FATP20B0608	54	0.15	40.0	N/A	206	15.0	6T	8T	1500VDC	C	6.6mm
FATP20B0610	54	0.15	40.0	N/A	206	23.0	6T	10T	1500VDC	C	6.6mm
FATP20B1201	216	0.85	70.0	N/A	150	1.5&1.5	12T	1T//1T	1500VDC	A	6.6mm
FATP20B1202	216	0.85	70.0	N/A	150	3.00	12T	1T+1T	1500VDC	A	6.6mm
FATP20B1203	216	0.60	70.0	N/A	150	34.5.0	12T	3T	1500VDC	B	6.6mm
FATP20B1206	216	0.30	140	N/A	300	8.50	12T	6T	1500VDC	C	6.6mm
FATP20B1208	216	0.25	140	N/A	300	15.0	12T	8T	1500VDC	C	6.6mm
FATP20B1210	216	0.25	140	N/A	300	23.0	12T	10T	1500VDC	C	6.6mm

APPLICATION OF CONFIGURATION

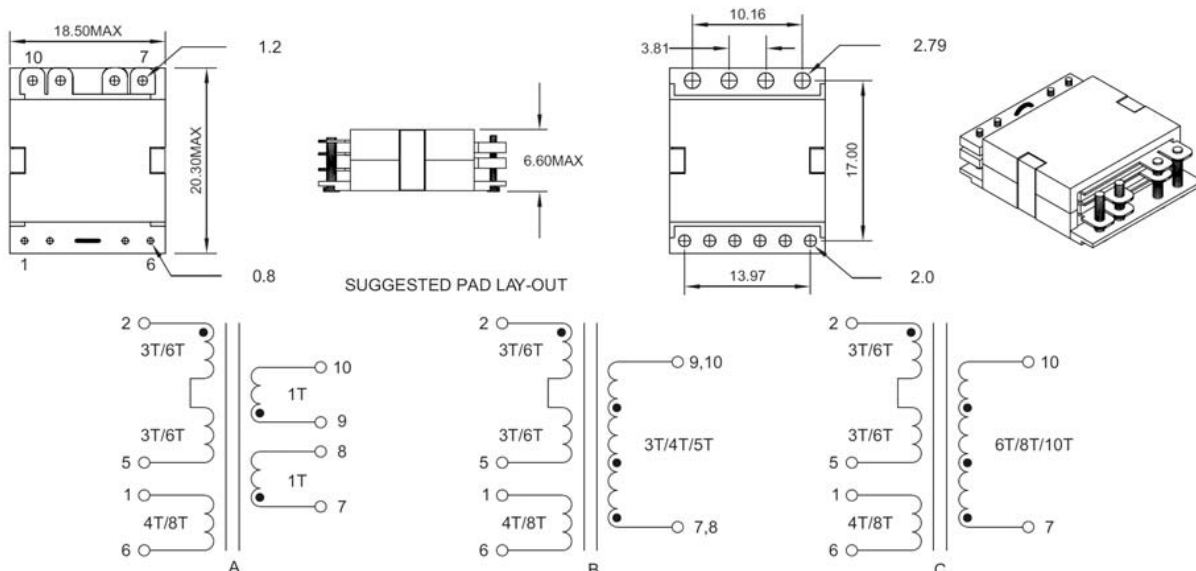
Part Number	Vin	Vout & Iout
FATP20B0601	18-36Vdc	1.2V@41.6A - 1.8V@37.5A
FATP20B0602	18-36Vdc	2.5V@25.5A - 3.3V@22.7A
FATP20B0603	18-36Vdc	5.0 V @ 15 A
FATP20B0606	18-36Vdc	8.0V@9.37A - 10V@7.50A
FATP20B0608	18-36Vdc	12V@6.25A - 15V@5.00A
FATP20B0610	18-36Vdc	16V@4.68A - 18V@4.16A
FATP20B1201	36-75Vdc	1.2V@41.6A - 1.8V@37.5A
FATP20B1202	36-75Vdc	2.5V@25.5A - 3.3V@22.7A
FATP20B1203	36-75Vdc	5.0 V @ 15 A
FATP20B1206	36-75 Vdc	8.0V@9.37A - 10V@7.50A
FATP20B1208	36-75 Vdc	12V@6.25A - 15V@5.00A
FATP20B1210	36-75 Vdc	16V@4.68A - 18V@4.16A

This is a matrix of the winding configurations. They are ideally suited to hand between 35-75W of power supply on DC-CD converters application.

TECHNICAL INFORMATION

- The inductance is measured in windings Pin(2-5) at 100kHz 100 mVrms.
- The leakage inductance is measured in winding Pin(2-5) with all other windings shorted.
- All specifications typical at TA=25 .

PHYSICAL CHARACTERISTICS



Note: All specifications subject to change without notice.