

DF SERIES DUAL OUTPUT 5V & 3.3V DC/DC CONVERTER

Product Features

- Dual DC/DC Converter, up to 16 Watts
- Ideal for Telecom and Networking Applications
- 2:1 Input Range, High Efficiency, High Temperature
- Industry Compatible Pin Out, 2" x 2" Form Factor
- Remote On / Off, TTL and Trim Capability
- Five Side Shielded, Low Profile 0.4" Height
- No external Input or Output Filtering required
- Regulated Output(s)
- Integrated Magnetic Architecture
- >1500VDC I/O Isolation, UL, CUL, TUV, CE Approvals pending



TYPICAL APPLICATIONS:

- 24 or 48Vdc Telecom
- On-Board Distributed Power
- Low Profile & Height PCB
- Dual Output Requirements

Overview

The DF Series of high efficiency DC/DC converters are available as dual output versions, with up to 16 Watts of output power. The product is ideal for Telecom and Networking applications. The converter is designed for a 2:1 input range, nominal 48VDC (36VDC-75VDC). The converter is PCB mountable, the package has a form factor of 2" x2" x .4" and is six side shielded. The standard specifications include the Pi-input filter, excellent load regulation, remote ON/OFF, trim capability, and short circuit protection. The isolation voltage meets the >1500VDC telecom requirements.

TABLE 1

Model Input Output Effic.

Number Voltage Volts//mA %

VDC

DF48D5-3.3-16 18-36 5 / 3.3 / 3000 85

for other input voltages, consult factory at: mail@wallindustries.com

SPECIFICATIONS:

Nominal Input: 48VDC (36-75VDC)

Output Voltage: see Table 1

Output Power: 16 W

Efficiency: ~85% typical Isolation Voltage: >1500VDC

Operating Temperature: -40C to +71C (no derating)

Max. Case Temp. 100C

Dimensions: $2" \times 2" \times 0.4"$

For further information or Application Support:

www.wallindustries.com

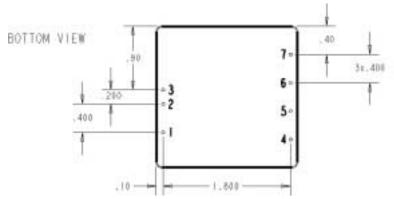
or call

1-888-597-WALL



Specification	Method	Min.	Typ.	Max.	Units
INPUT VOLTAGE:	48V version	36	48	75	Volts
REMOTE ON/OFF INPUT FILTER	TTL Pi-Filter				TTL logic
OUTPUT VOLTAGE OUTPUT VOLTAGE Set Point OUTPUT CURRENT OVERCURRENT PROTECTION OUTPUT RIPPLE SHORT CIRCUIT PROTECTION	Limiting 20MHz BW continuous		see table +/- 1% see table <50mVp-p		Volts % of Vout A % of lout mV peak/peak
LINE REGULATION LOAD REGULATION	HL / LL 10-100% load		+/- 0.5% +/- 0.5		
TRANSIENT RESPONSE	within +/-1% Vout		<500u sec		
OUTPUT TRIM	Pin 4		+/- 109	%	% of Vout
EFFICIENCY			see tab	ole	
ISOLATION VOLTAGE ISOLATION RESISTANCE	In/Out >100MC	hms	>1500\	/DC	VDC / 10sec
SWITCHING FREQUENCY		400kHz typ.			
OPERATING TEMPERATURE STORAGE TEMPERATURE CASE TEMPERATURE		-40 -55		+71 +105 +100	degree C degree C degree C
WEIGHT DIMENSIONS CASE MATERIAL	case w/o pin		~3 oz 2"x 2"x	0.4"	inches Ni coated Copper

All case and Pin-to-Case dimensions are for reference only, unless otherwise noted. All DC/DC converters should be externally fused at the front end for protection. Significant capacitive load at the output of the converter may inhibit the start-up and operation.



PIN

8

8

4

5

FUNCTION

Remate Ox/Off

Yi1-)

Vi(+)

Trin

Y02(+)