

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

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" x 2" 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.

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" x 2" x 0.4"



TYPICAL APPLICATIONS:

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

TABLE 1

Model Number	Input Voltage VDC	Output Volts/ / mA	Effic. %
DF48D5-3.3-16	18-36	5 / 3.3 / 3000	85

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

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	TTL				TTL logic
INPUT FILTER	Pi-Filter				
OUTPUT VOLTAGE			see table		Volts
OUTPUT VOLTAGE Set Point			+/- 1%		% of Vout
OUTPUT CURRENT			see table		A
OVERCURRENT PROTECTION	Limiting				% of Iout
OUTPUT RIPPLE	20MHz BW		<50mVp-p		mV peak/peak
SHORT CIRCUIT PROTECTION	continuous				
LINE REGULATION	HL / LL		+/- 0.5%		
LOAD REGULATION	10-100% load		+/- 0.5		
TRANSIENT RESPONSE	within +/-1% Vout		<500u sec		
OUTPUT TRIM	Pin 4		+/- 10%		% of Vout
EFFICIENCY			see table		
ISOLATION VOLTAGE			>1500VDC		VDC / 10sec
ISOLATION RESISTANCE	In/Out >100MOhms				
SWITCHING FREQUENCY			400kHz typ.		
OPERATING TEMPERATURE		-40		+71	degree C
STORAGE TEMPERATURE		-55		+105	degree C
CASE TEMPERATURE				+100	degree C
WEIGHT			~3 oz		
DIMENSIONS	case w/o pin		2"x 2"x 0.4"		inches
CASE MATERIAL					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.

