Single/Dual Output DC/DC Converter
2" x 1" x 0.4" - up to 12 Watts Output

- Single/Dual Out DC/DC Converter, up to 12 Watts
- Ideal for Telecom and Networking Applications
- 4:1 Input Range, High Efficiency
- Industry Compatible Pin Out, 2" x 1" Form Factor
- Six Side Shielded, Low Profile 0.4" Height
- No external Input or Output Filtering required
- Regulated Output
- Over Voltage Protection
- Continuous Short Circuit Protection
- >1500VDC I/O Isolation
- Remote on/off control
- Designed to meet UL, CSA, VDE, CE

TYPICAL APPLICATIONS:

- 9V-36V or 18-75VDC Telecom Input
- On-Board Distributed Power
- Low Profile & Height PCB

Model Number	Input Voltage VDC	Output Volts /mA % VDC	Effic.
Single Output			
RJW24S33-2400	9-36	3.3 //2400	78
RJW24S5-2000	9-36	5 // 2000	82
RJW24S12-1000	9-36	12 // 1000	84
RJW24S15-800	9-36	15//800	84
RJW48S3.3-2400	18-75	3.3 // 2400	78
RJW48S5-2000	18-75	5 // 2000	82
RJW48S12-1000	18-75	12 // 1000	84
RJW48S15-800	18-75	15//800	84
Dual Output			
RJW24D5-1000	9-36	±5 // 1000	82
RJW24D12-500	9-36	±12 // 500	84
RJW24D15-400	9-36	±15 // 400	84
RJW48D5-1000	18-75	±5 // 1000	82
RJW48D12-500	18-75	±12 // 500	84
RJW48D15-400	18-75	±15 // 400	84

NOTE: For negative logic remote on/off add suffix "R" to part number.

OVERVIEW

The RJW Series of high efficiency DC/DC converters are available as single and dual output versions, 3.3VDC up to 15VDC, with up to 12 Watts of output power. The product is ideal for Telecom and Networking applications. The converter is designed for a 4:1 input range, either nominal 24 Volt (9VDC -36VDC) or nominal 48VDC (18VDC-75VDC). The converter is PCB mountable, the package has a formfactor of 2"x1"x.04". The standard specifications include the Pi-input filter, excellent load regulation and short circuit protection. The isolation voltage meets the >1500VDC telecom requirements.

SPECIFICATIONS:

Nominal Input:	24VDC (9-36 VDC) 48VDC (18-75VDC)
Output Voltage:	Single / Dual, see Table 1
Output Power:	up to 12 W
Isolation Voltage:	>1500VDC (60 seconds)
Operating Temperature:	-40C to +71C (ambient) no derating
Storage Temp.:	-40ºC to +125ºC
Max. Case Temp.:	100C
Dimensions:	2" x 1" x 0.4"

For further information or Application Support:

www.wallindustries.com

or call 1-888-597-WALL

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SPECIFICATIONS

Specification	Method	Min.	Typ.	Max.	Units
INPUT VOLTAGE:	48V version	18	48	75	Volts
	24V version	9	24	36	Volts
REMOTE ON/OFF	TTL				TTL logic
INPUT FILTER	LC-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		<75mVpp		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		<500usec		
REMOTE ON/OFF	Pin 6				TTL Logic
EFFICIENCY			see table		
ISOLATION VOLTAGE	In/Out/ >100MOhms Res.		>1500VDC		VDC / 60sec
SWITCHING FREQUENCY			400kHz typ.		
OPERATING TEMPERATURE		-40		+71	deg. C (amb)
STORAGE TEMPERATURE		-40		+125	degree C
WEIGHT			~ 1 oz		
DIMENSIONS	case w/o pin		2”x 1”x 0.4”		inches
CASE MATERIAL			Metal Case		
REMOTE ON/OFF					
Supply On			2.5 to 5.5VDC or open circuit		
Supply Off		-0.7	------	0.8	VDC
Standby Input Current		-----	------	10	mA
Control Common			Referenced to Negative Input		

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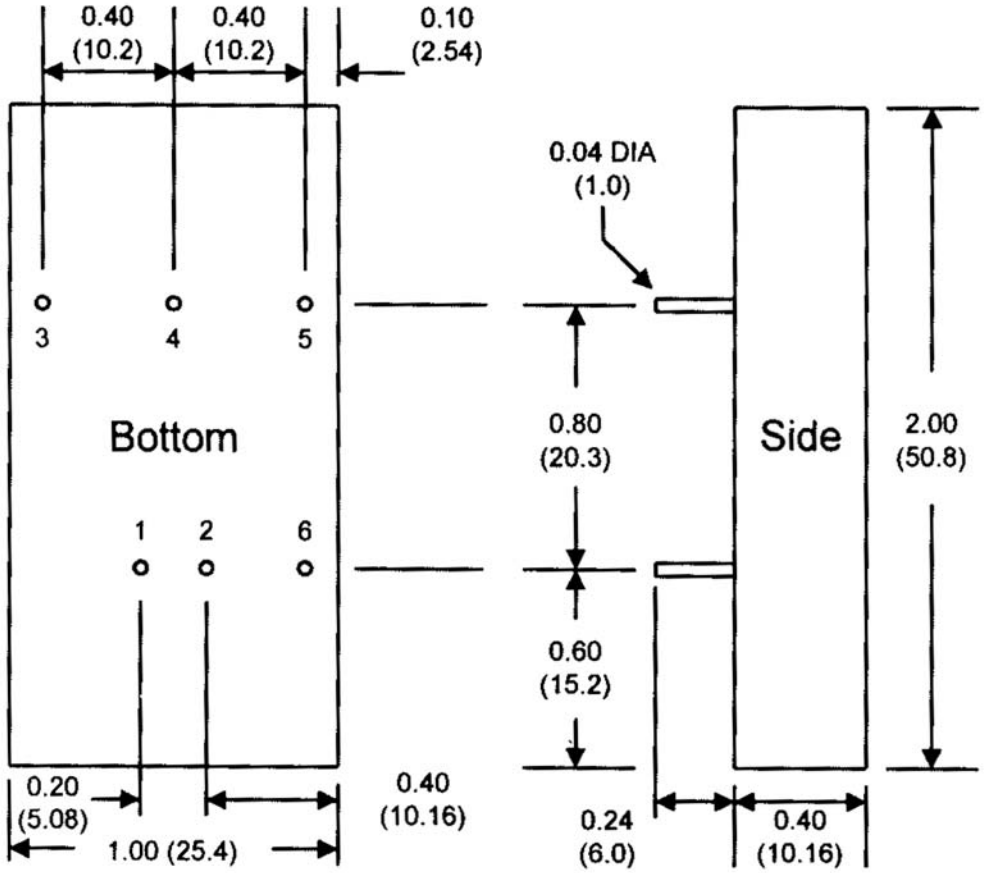
Pin	Single	Dual
1	+ In	+ In
2	- In	- In
3	+ V Out	+ V Out
4	No Pin	Common
5	- V Out	- V Out
6	Remote	Remote

Mechanical Configuration



All dimensions typical in inches (mm). Tolerance= +/- 0.01 (+/- 0.25)

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.

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