

DC/DC Converters

15 Watts JTA15 Series

XPiQ inc.
Intelligent Design Quality Product



Small Size 1.60" x 2.00" x 0.45"

Ultra Wide 4:1 Input

Full Power to +71 °C

Industry Standard Pin Out

Single & Dual Outputs

Overvoltage & Overcurrent Protection

UL Safety Approvals

Specification

Input

- Input Voltage**
 - 9-36 VDC
 - 18-75 VDC
- Input Current**
 - 2.2 A max at 9 VDC input, 15 W output
- Remote ON/OFF**
 - ON = Logic High or Open,
 - OFF = Logic Low or shorted to -Vin

Output

- Output Voltage**
 - See Table
- Output Power**
 - 15 Watts
- Output Voltage Adjustment**
 - ±10%
- Minimum Load**
 - 0 minimum load required
- Line Regulation**
 - ±1% maximum
- Load Regulation**
 - ±1% maximum for single output
 - ±2% maximum for dual output
- Setpoint Accuracy**
 - ±2%
- Ripple & Noise**
 - 50 mV pk-pk for single output
 - 75 mV pk-pk for dual output
- Transient Response**
 - 4% max deviation, recovering to 1% of final value in less than 500 μs after a 25% load change
- Temperature Coefficient**
 - ±0.02%/°C
- Overvoltage Protection**
 - See table
- Overcurrent Protection**
 - Continuous with auto recovery

General

- Efficiency**
 - See table
- MTBF**
 - 1,000,000 hrs minimum per MIL-HDBK-217F
- Isolation Voltage**
 - 1500 VDC Input to Output
- Package Style**
 - Copper case with non-conductive base
- Size**
 - 2.00" x 1.60" x 0.45"
- Weight**
 - 50 grams approx

Environmental

- Operating Temperature**
 - 25 °C to +100 °C derate from 100% load at +71 °C to 0% load at +100 °C
- Cooling**
 - Convection cooled
- Storage Temperature**
 - 55 °C to +105 °C
- Humidity**
 - 5-95% RH non-condensing

EMC & Safety

- Safety Approvals**
 - UL/cUL 1950
- EMI/EMC**
 - EN55022 Class B conducted

* Preliminary datasheet - see website for current specs

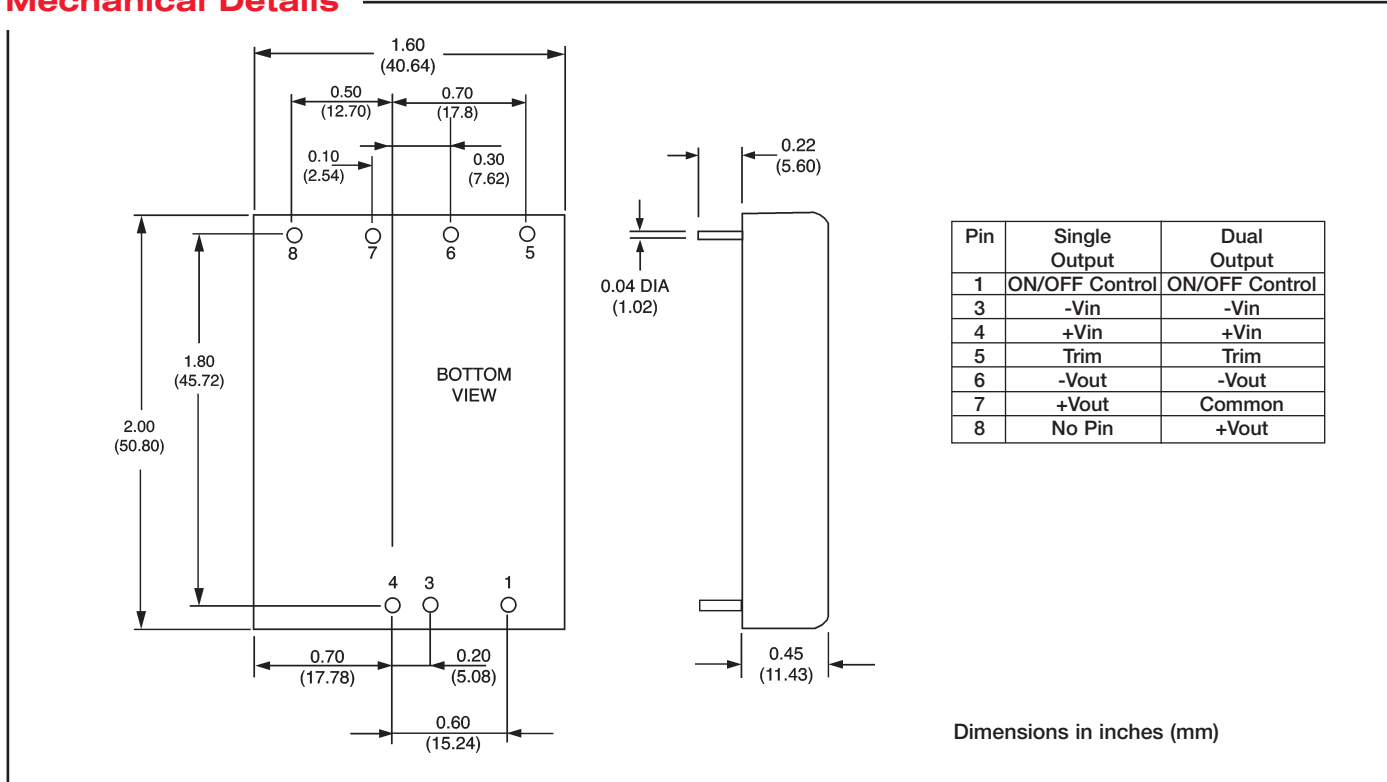
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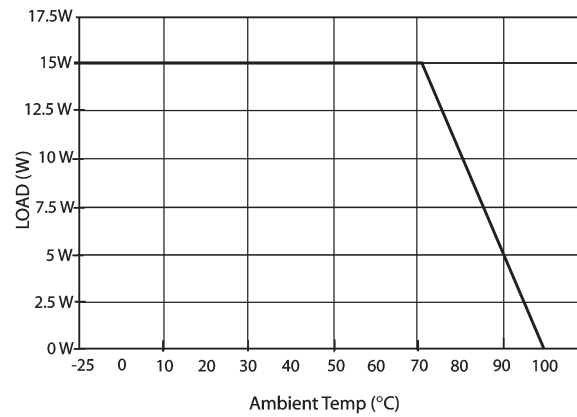
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OUTPUT VOLTAGE & CURRENT RATINGS							JTA15	
Input Voltage	Maximum Power	Overvoltage Protection	Output1		Output 2		Efficiency	Model Number
			V1nom	I _{max}	V2nom	I _{max}		
24 V (9-36)	15 W	6.8 V	5.0 V	3.000 A			80%	JTA1524S05
	15 W	15.0 V	12.0 V	1.250 A			82%	JTA1524S12
	15 W	18.0 V	15.0 V	1.000 A			82%	JTA1524S15
	15 W	6.8 V	5.0 V	1.500 A	-5.0 V	1.500 A	80%	JTA1524D01
	15 W	15.0 V	12.0 V	0.625 A	-12.0 V	0.625 A	82%	JTA1524D02
	15 W	18.0 V	15.0 V	0.500 A	-15.0 V	0.500 A	82%	JTA1524D03
48 V (18-75)	15 W	6.8 V	5.0 V	3.000 A			80%	JTA1548S05
	15 W	15.0 V	12.0 V	1.250 A			82%	JTA1548S12
	15 W	18.0 V	15.0 V	1.000 A			82%	JTA1548S15
	15 W	6.8 V	5.0 V	1.500 A	-5.0 V	1.500 A	80%	JTA1548D01
	15 W	15.0 V	12.0 V	0.625 A	-12.0 V	0.625 A	82%	JTA1548D02
	15 W	18.0 V	15.0 V	0.500 A	-15.0 V	0.500 A	82%	JTA1548D03

Mechanical Details



Derating Curve



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