

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Murata Power Solutions Inc. PWR70C

For any questions, you can email us directly: sales@integrated-circuit.com

Distributor of Murata Power Solutions Inc.: Excellent Integrated System Limited

Datasheet of PWR70C - CONV DC/DC 3W 100MA UNREG

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



PWR70C Series

3 Watt, High Isolation, Unregulated DC/DC Converters

FEATURES

- Tested in compliance with UL544
- Output power to 3W
- High isolation voltage: 5000Vpk tested
- Six-sided shielding
- Input and output filtering
- Low profile package: 0.4" High

APPLICATIONS

- Power for data acquisition, op amps, etc.
- Process control
- Portable equipment
- Test equipment

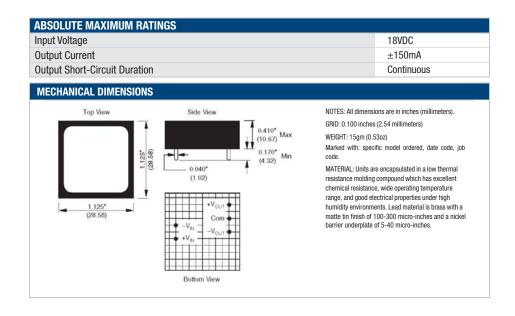
PRODUCT OVERVIEW

The PWR70C is a dual-output DC/DC converter designed for general purpose power conversion applications where high efficiency is more important than load regulation.

The PWR70C provides a bipolar output voltage approximately equal to the input voltage magnitude. It operates over an input voltage range of 10VDC to 18VDC. Isolation voltage is tested at 5000Vpk.

Six-sided shielding suppresses electromagnetic radiation which could disturb sensitive analog measurements or interfere with system timing signals. Input filtering minimizes reflected ripple current. Output ripple voltage and switching transients are reduced by filtering the PWR70C outputs.

The PWR70C is tested in compliance with UL544, VDE750, and CSA C22.2 dielectric withstand voltage requirements.







Distributor of Murata Power Solutions Inc.: Excellent Integrated System Limited

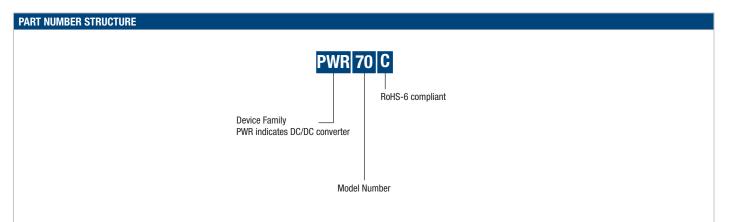
Datasheet of PWR70C - CONV DC/DC 3W 100MA UNREG

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



PWR70C Series

3 Watt, High Isolation, Unregulated DC/DC Converters



ELECTRICAL SPECIFICATIONS

At Ta = +25°C, +Vin = 15VDC, and $Iout = \pm 15mA$ unless otherwise noted.

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
INPUT			45		VDO
Rated Voltage		10	15	40	VDC
Voltage Range		10	0.5	18	VDC
Input Current	$I_{OUT} = \pm 3\text{mA}$		25	150	mA
Pipple Current	$I_{\text{OUT}}^{\text{OUT}} = \pm 33\text{mA}$		10	150	mA
Ripple Current	$I_{OUT} = \pm 33\text{mA}$		10		mAp-p
ISOLATION					
Test Voltage	60s, 60Hz	5000			Vpk
Resistance			10		GΩ
Capacitance			12		pF
Leakage Current	$V_{ISO} = 240VAC, 60Hz$			2	μΑ
OUTPUT					
Rated Voltage			±15		VDC
Voltage Accuracy				±5	%
Rated Current			±15		mA
Current Range		0		±100	mA
Line Regulation	10VDC < Vin < 18VDC		1.08		V/V
Load Regulation	± 3 mA $<$ lout $< \pm 3$ 3mA		35		mV/mA
Ripple Voltage	$lout = \pm 3mA$		10		mVp-p
	lout = ±33mA			80	mVp-p
TEMPERATURE					
Specification		-25		+85	°C
Operating		-55		+125	°C
Storage		-65		+150	°C

Distributor of Murata Power Solutions Inc.: Excellent Integrated System Limited

Datasheet of PWR70C - CONV DC/DC 3W 100MA UNREG

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

muRata Ps Murata Power Solutions

PWR70C Series

3 Watt, High Isolation, Unregulated DC/DC Converters

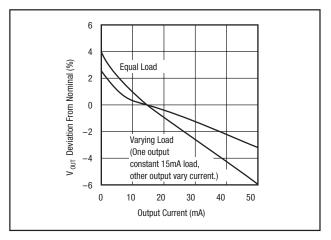


FIGURE 1. Load Regulation.

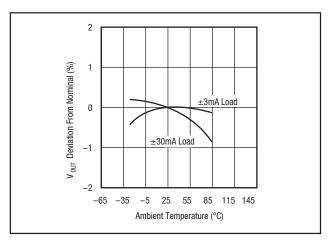


FIGURE 2. Temperature Drift.

Murata Power Solutions, Inc. 11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A. ISO 9001 and 14001 REGISTERED



This product is subject to the following <u>operating requirements</u> and the <u>Life and Safety Critical Application Sales Policy</u>:
Refer to: http://www.murata-ps.com/requirements/

Murata Power Solutions, Inc. makes no representation that the use of its products in the circuits described herein, or the use of other technical information contained herein, will not infringe upon existing or future patent rights. The descriptions contained herein do not imply the granting of licenses to make, use, or sell equipment constructed in accordance therewith. Specifications are subject to change without notice.

© 2012 Murata Power Solutions, Inc.