

DELPHI SERIES



FEATURES

- ◆ High efficiency: 91.5% @ 5.0V/ 12A
- ◆ Size: 58.4mm x 22.8mm x 9.0mm
(2.30"x0.90"x0.35")
- ◆ Industry standard pin out
- ◆ Fixed frequency operation
- ◆ Input UVLO, Output OTP, OCP, OVP
- ◆ 2250V isolation
- ◆ Basic insulation
- ◆ No minimum load required
- ◆ SMD and through-hole versions
- ◆ ISO 9000, TL 9000, ISO 14001 certified manufacturing facility
- ◆ UL/cUL 60950-1 (US & Canada) and TUV (EN60950-1) pending

Delphi Series E48SC, 66W Eighth Brick Family DC/DC Power Modules: 48V in, 5V out

The Delphi Series E48SC Eighth Brick, 48V input, single output, isolated DC/DC converter is the latest offering from a world leader in power systems technology and manufacturing --Delta Electronics, Inc. This product family provides up to 66 watts, improved and very cost effective power solution of 5V/12A in an industry standard footprint and pinout. With creative design technology and optimization of component placement, these converters possess outstanding electrical and thermal performances, as well as extremely high reliability under highly stressful operating conditions. All models are fully protected from abnormal input/output voltage, current, and temperature conditions. The Delphi Series converters meet all safety requirements with basic insulation.

OPTIONS

- ◆ Positive On/Off logic
- ◆ Short pin lengths available
- ◆ SMD pin

APPLICATIONS

- ◆ Telecom / DataCom
- ◆ Wireless Networks
- ◆ Optical Network Equipment
- ◆ Server and Data Storage
- ◆ Industrial / Test Equipment

PRELIMINARY DATA BRIEF
DB_E48SR_02292008


Delta Electronics, Inc.

SPECIFICATIONS

GENERAL SPECIFICATIONS			OUTPUT SPECIFICATIONS		
Input Voltage		36~75V	Voltage Accuracy	Typical	±1%
Switching Frequency	Typical	350KHz	Line Regulation	Typical	±0.2%
Isolation Voltage	In/Out	2250V	Load Regulation	Typical	±0.2%
Isolation Capacitance	Typical	1000PF	Ripple & Noise	Typical (5.0V)	50 mV
Isolation Resistance	Minimum	10MΩ	Current Limits	Typical	125%
MTBF	Bellcore (5.0V)	TBD	Over Voltage	Typical	120%
Size	(2.30"x0.90"x0.35")	58.4x22.8x9.0mm	Voltage Trim		+10%, -10%

PART NUMBERING SYSTEM

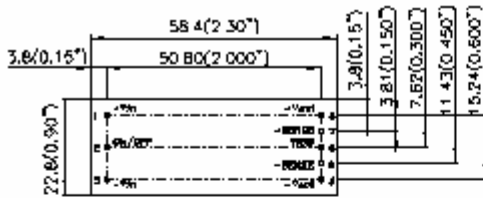
E	48	S	C	050	12	N	R	F	A
Type of Product	Input Voltage	Number of Outputs	Product Series	Output Voltage	Output Current	ON/OFF Logic	Pin Length	Space	Option Code
E - Eighth Brick	48- 36~75V	S - Single	C - Improved E48SR	050 - 5.0V	12 - 12A	N - Negative P - Positive	R - 0.170" N - 0.145"	F - RoHS 6/6 Space - RoHS 5/6	A - Standard Function

MODEL LIST

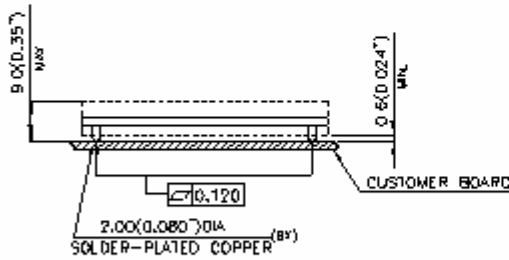
MODEL NAME	INPUT	OUTPUT	EFF @ 100% LOAD
E48SC05012NR A	36V~75V	2.1A	5.0V 12A 91.5%

MECHANICAL DRAWINGS

Surface-mount module

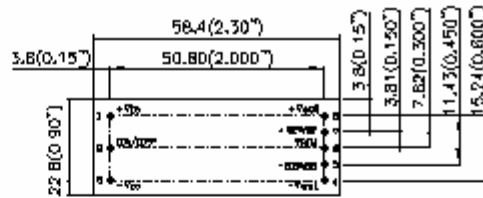


TOP VIEW

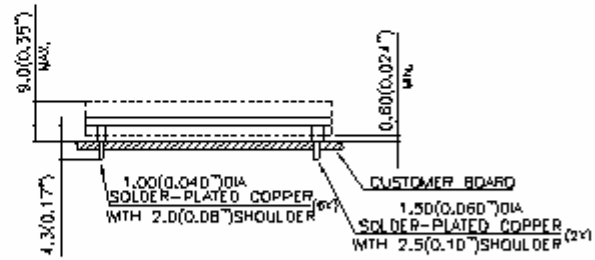


SIDE VIEW

Through-hole module



TOP VIEW



SIDE VIEW

NOTES
 DIMENSIONS ARE IN MILLIMETERS AND (INCHES)
 TOLERANCES: X.Xmm±0.5mm(X.XX in.±0.02 in.)
 X.XXmm±0.25mm(X.XXX in.±0.010 in.)

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