S E R I E S

EC3C

15 WATT WIDE INPUT DC-DC CONVERTERS

Feature

- 15W Isolated Output
- 2:1 Input Range
- Efficiency to 82%
- Six-Sided Shield
- 200KHz Switching
- Frequency

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	% EFF.	CASE
EC3C01		5 VDC	3000 mA	30 mA	1660 mA	75	
EC3C02		12 VDC	1250 mA	30 mA	1625 mA	78	
EC3C03		15 VDC	1000 mA	30 mA	1625 mA	78	
EC3C04	9-18 VDC	±12 VDC	±625 mA	35 mA	1620 mA	77	C/S
EC3C05		±15 VDC	±500 mA	35 mA	1620 mA	77	
EC3C06		±5 VDC	±1500 mA	35 mA	1620 mA	77	
EC3C07		3.3 VDC	3000 mA	30 mA	1178 mA	70	
EC3C11		5 VDC	3000 mA	15 mA	812 mA	78	
EC3C12		12 VDC	1250 mA	20 mA	772 mA	81	
EC3C13		15 VDC	1000 mA	20 mA	772 mA	81	
EC3C14	18-36 VDC	±12 VDC	±625 mA	25 mA	780 mA	80	C/S
EC3C15		±15 VDC	±500 mA	25 mA	780 mA	80	
EC3C16		±5 VDC	±1500 mA	25 mA	780 mA	80	
EC3C17		3.3 VDC	3000 mA	15 mA	557 mA	74	
EC3C21		5 VDC	3000 mA	10 mA	390 mA	80	
EC3C22		12 VDC	1250 mA	15 mA	381 mA	82	
EC3C23		15 VDC	1000 mA	15 mA	381 mA	82	
EC3C24	36-72 VDC	±12 VDC	±625 mA	20 mA	386 mA	81	C/S
EC3C25		±15 VDC	±500 mA	20 mA	386 mA	81	
EC3C26		±5 VDC	±1500 mA	20 mA	386 mA	81	
EC3C27		3.3 VDC	3000 mA	20 mA	271 mA	76	

NOTE: 1. Nominal Input Voltage 12,24 or 48 VDC
2. Alternative pin-out version. To order, suffix an "S" to the standard model number.

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range..... 12V 9-18V
24V 18-36V
48V 36-72V

Input Filter.....Pi Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy
Single Output.....±1.0% max.
Dual + Output.....±1.0% max.
Dual - Output.....±3.0% max.

Voltage Balance Dual Output at Full Load.....±1.0% max.

Transient Response

Single 25% Step Load Change.....<500µ sec.

Dual FL,1/2L ±1% Error Band.....<500µ sec.

Ripple & Noise 20MHz BW.....10mV RMS. max.
75mV p-p max.

Temperature Coefficient.....±0.02%/˚C

Short Circuit Protection.....Indefinite & Current Limit

Line Regulation[1] Single/Dual Output.....±0.2% max.

Load Regulation[2] Single/Dual Output.....±1.0% max.

GENERAL SPECIFICATIONS:

Efficiency.....See Table

Isolation Voltage.....500 VDC min

Isolation Resistance.....10^9ohms

Switching Frequency.....200KHz, typ.

Operating Temperature Range.....-25˚C to + 71˚C

Case Temperature.....100˚C max.

Cooling.....Free-Air Convection

Storage Temperature Range.....-40˚C to + 100˚C

EMI/RFI.....Six-Sided Continuous Shield

Dimensions.....2 x 2 x 0.4 inches
(50.8 x 50.8 x 10.2mm)

Case Material.....Black Coated Copper With
Non-Conductive Base

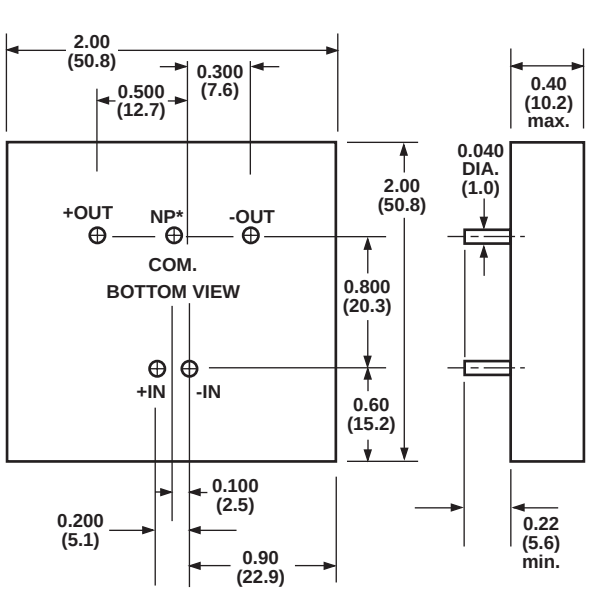
NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to 1/4 Full load
3. Determine the Correct Fuse Size by Calculating the Maximum DC Current Drain at Low Line Input, Maximum Load and Then Adding 20 to 25% to Get Desired Fuse Size.
4. Alternative Pin Configuration Suffix "S"

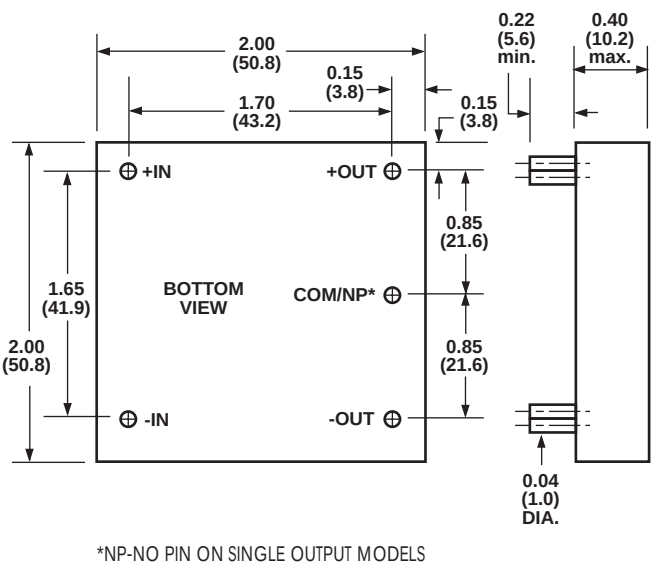
CASE C

All Dimensions In Inches(mm)

STANDARD PIN CONFIGURATION



ALTERNATIVE PIN CONFIGURATION SUFFIX "S"



*NP-NO PIN ON SINGLE OUTPUT MODELS

All Specifications Typical At Nominal Line, Full Load and 25˚C Unless Otherwise Noted.