

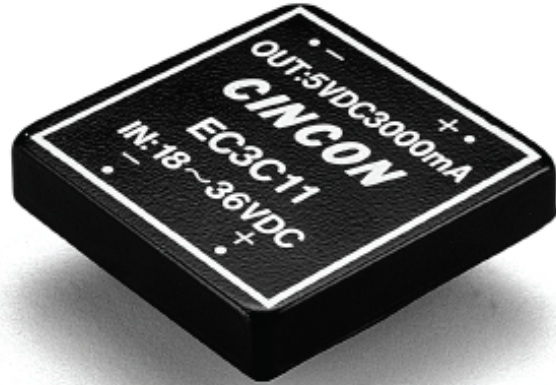


EC3C SERIES

15 WATT 2:1 INPUT DC-DC CONVERTERS

FEATURES

- * 15W Isolated Output
- * Efficiency to 82%
- * 2" x 2" Six-Sided Shield Metal Case
- * Alternative Pin Configuration
- * Fixed 200KHz Switching Frequency



Not Recommended for New Designs

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	SIZE
				NO LOAD	FULL LOAD		
EC3C01	9-18 VDC	5 VDC	3000 mA	30 mA	1660 mA	75	2" x 2"
EC3C02	9-18 VDC	12 VDC	1250 mA	30 mA	1625 mA	78	2" x 2"
EC3C03	9-18 VDC	15 VDC	1000 mA	30 mA	1625 mA	78	2" x 2"
EC3C04	9-18 VDC	±12 VDC	±625 mA	35 mA	1620 mA	77	2" x 2"
EC3C05	9-18 VDC	±15 VDC	±500 mA	35 mA	1620 mA	77	2" x 2"
EC3C06	9-18 VDC	±5 VDC	±1500 mA	35 mA	1620 mA	77	2" x 2"
EC3C07	9-18 VDC	3.3 VDC	3000 mA	30 mA	1178 mA	70	2" x 2"
EC3C11	18-36 VDC	5 VDC	3000 mA	15 mA	812 mA	78	2" x 2"
EC3C12	18-36 VDC	12 VDC	1250 mA	20 mA	772 mA	81	2" x 2"
EC3C13	18-36 VDC	15 VDC	1000 mA	20 mA	772 mA	81	2" x 2"
EC3C14	18-36 VDC	±12 VDC	±625 mA	25 mA	780 mA	80	2" x 2"
EC3C15	18-36 VDC	±15 VDC	±500 mA	25 mA	780 mA	80	2" x 2"
EC3C16	18-36 VDC	±5 VDC	±1500 mA	25 mA	780 mA	80	2" x 2"
EC3C17	18-36 VDC	3.3 VDC	3000 mA	15 mA	557 mA	74	2" x 2"
EC3C21	36-72 VDC	5 VDC	3000 mA	10 mA	390 mA	80	2" x 2"
EC3C22	36-72 VDC	12 VDC	1250 mA	15 mA	381 mA	82	2" x 2"
EC3C23	36-72 VDC	15 VDC	1000 mA	15 mA	381 mA	82	2" x 2"
EC3C24	36-72 VDC	±12 VDC	±625 mA	20 mA	386 mA	81	2" x 2"
EC3C25	36-72 VDC	±15 VDC	±500 mA	20 mA	386 mA	81	2" x 2"
EC3C26	36-72 VDC	±5 VDC	±1500 mA	20 mA	386 mA	81	2" x 2"
EC3C27	36-72 VDC	3.3 VDC	3000 mA	20 mA	271 mA	76	2" x 2"

NOTE: 1. Nominal Input Voltage 12, 24 or 48VDC

2. Alternative pin-out version. To order, suffix a "S" to the standard model number.

SPECIFICATIONS

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

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 Full Load	±1.0% max.
Transient Response	
Single 25% Step Load Change	<500us
Dual FL-1/2L±1% Error Band	<500us
Ripple and Noise, 20MHz BW	
	10mV RMS. max.
	75mV p-p max.
Temperature Coefficient	±0.02%/°C
Short Circuit Protection	Indefinite & Current Limit
Line Regulation (note 1), Single/Dual Output	±0.2% max.
Load Regulation (note 2), Single/Dual Output	±1.0% max.

GENERAL SPECIFICATIONS:

Efficiency	See Table
Isolation Voltage	500 VDC min.
Isolation Resistance	10 ⁹ ohms
Switching Frequency	200KHz, typ.
Operating Ambient Temperature Range	-25°C to +71°C
De-rating, Above 71°C	Linearly to Zero power at 100°C
Case Temperature (note 5)	100°C max.
Cooling	Natural Convection
Storage Temperature Range	-40°C to +100°C
EMI/RFI	Six-Sided Continuous Shield
Dimensions	2.00×2.00×0.40 inches (50.8×50.8×10.2mm)
Case Material	Black Coated Copper With Non-Conductive Base
Weight	57g

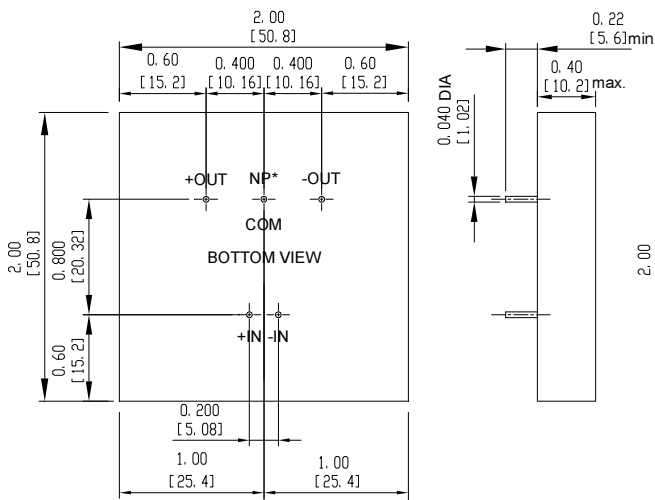
NOTE:

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".
5. Maximum case temperature under any operating condition should not be exceeded 100°C.

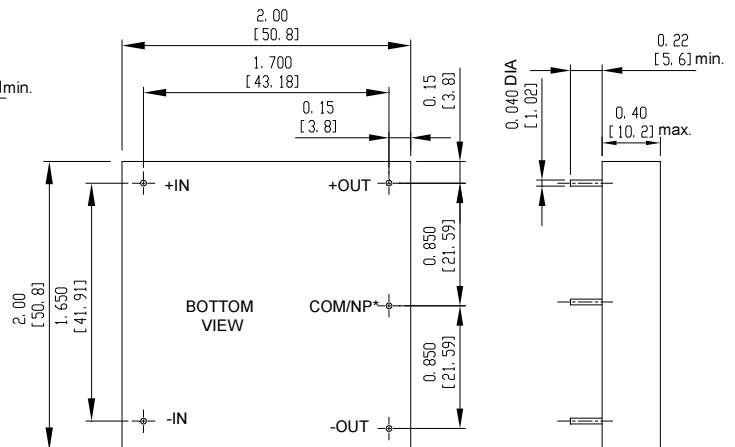
Case C Dimensions:

All Dimensions In Inches(mm)
 Tolerances Inches: X.XX= ±0.04 , X.XXX= ±0.010
 Millimeters: X.X= ±1.0 , X.XX=±0.25

STANDARD PIN CONFIGURATION



ALTERNATE PIN CONFIGURATION SUFFIX "S"



* NP - NO PIN ON SINGLE OUTPUT MODLES

Typical Derating curve for Natural Convection

