

# 3C

## 15 WATT WIDE INPUT DC-DC CONVERTERS

### Features:

- 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		% EFF.	CASE
				NO LOAD	FULL LOAD		
3C01		5 VDC	3000 mA	30 mA	1660 mA	75	
3C02		12 VDC	1250 mA	30 mA	1625 mA	78	
3C03		15 VDC	1000 mA	30 mA	1625 mA	78	
3C04	9-18 VDC	±12 VDC	±625 mA	35 mA	1620 mA	77	C/S
3C05		±15 VDC	±500 mA	35 mA	1620 mA	77	
3C06		±5 VDC	±1500 mA	35 mA	1620 mA	77	
3C07		3.3 VDC	3000 mA	30 mA	1178 mA	70	
3C11		5 VDC	3000 mA	15 mA	812 mA	78	
3C12		12 VDC	1250 mA	20 mA	772 mA	81	
3C13		15 VDC	1000 mA	20 mA	772 mA	81	
3C14	18-36 VDC	±12 VDC	±625 mA	25 mA	780 mA	80	C/S
3C15		±15 VDC	±500 mA	25 mA	780 mA	80	
3C16		±5 VDC	±1500 mA	25 mA	780 mA	80	
3C17		3.3 VDC	3000 mA	15 mA	557 mA	74	
3C21		5 VDC	3000 mA	10 mA	390 mA	80	
3C22		12 VDC	1250 mA	15 mA	381 mA	82	
3C23		15 VDC	1000 mA	15 mA	381 mA	82	
3C24	36-72 VDC	±12 VDC	±625 mA	20 mA	386 mA	81	C/S
3C25		±15 VDC	±500 mA	20 mA	386 mA	81	
3C26		±5 VDC	±1500 mA	20 mA	386 mA	81	
3C27		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.



### D1 International, Inc.

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## 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 s.
Dual FL, 1/2L ±1% Error Band.....		<500µ s.
Ripple & Noise 20MHz BW.....		10mV RMS. max.
		75mV p-p max.
Temperature Coefficient.....		±0.02%/°C
Short Circuit Protection.....		Indefinite & Current Limit
Line Regulation <sup>1</sup> Single/Dual Output.....		±0.2% max.
Load Regulation <sup>2</sup> Single/Dual Output.....		±1.0% max.

## GENERAL SPECIFICATIONS:

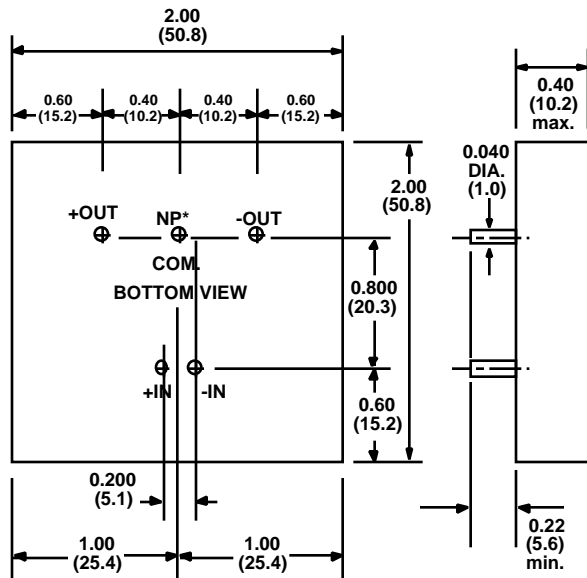
Efficiency.....		See Table
Isolation Voltage.....		500 VDC min
Isolation Resistance.....		10 <sup>9</sup> ohms
Switching Frequency.....		200kHz, min
Operating Temperature Range.....		-25°C to + 71°C
Case Temperature.....		100°C max.
Cooling.....		Free-Air Convection
Storage Temperature Range.....		-40°C 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:

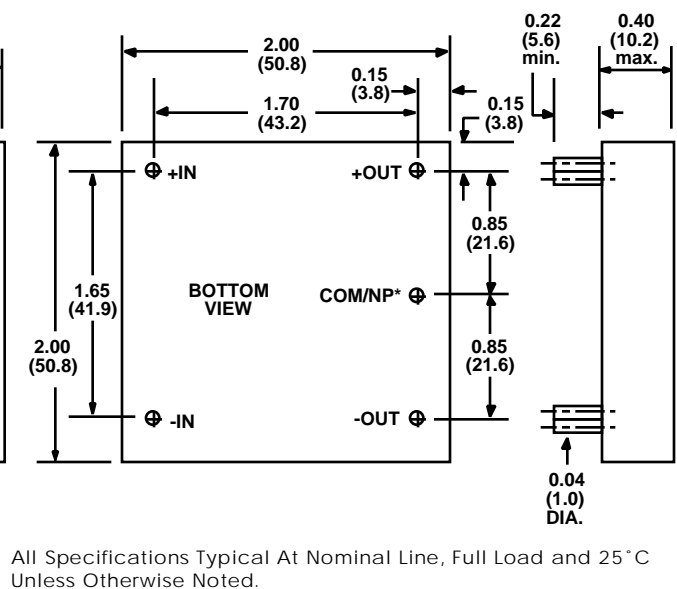
1. Measured From High Line to Low Line
2. Measured From Full Load to 1/4 Full load
3. Determine the Correct Fuse Size by Calculating the Maximum DC Current Drain at Low Line Input, Maximum Load and Then Adding 20 to 25% to Get Desired Fuse Size.
4. Alternative Pin Configuration Suffix "S"

## CASE C

STANDARD PIN CONFIGURATION



ALTERNATIVE PIN CONFIGURATION SUFFIX "S"



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