

4C

5-6 WATT WIDE INPUT DC-DC CONVERTERS

Features:

- 5-6W Isolated Output
- 2:1 Input Range
- Efficiency to 79%
- 200 KHz Switching Frequency

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	CASE
				NO LOAD	FULL LOAD		
4C01		5 VDC	1000 mA	20 mA	570 mA	73	
4C02		12 VDC	470 mA	30 mA	626 mA	75	
4C03	9-18 VDC	15 VDC	400 mA	30 mA	667 mA	75	C/S
4C04		±12 VDC	±230 mA	35 mA	630 mA	73	
4C05		±15 VDC	±190 mA	35 mA	650 mA	73	
4C11		5 VDC	1000 mA	15 mA	278 mA	75	
4C12		12 VDC	470 mA	20 mA	305 mA	77	
4C13	18-36 VDC	15 VDC	400 mA	20 mA	325 mA	77	C/S
4C14		±12 VDC	±230 mA	25 mA	307 mA	75	
4C15		±15 VDC	±190 mA	25 mA	317 mA	75	
4C21		5 VDC	1000 mA	10 mA	135 mA	77	
4C22		12 VDC	470 mA	15 mA	149 mA	79	
4C23	36-72 VDC	15 VDC	400 mA	15 mA	158 mA	79	C/S
4C24		±12 VDC	±230 mA	20 mA	149 mA	77	
4C25		±15 VDC	±190 mA	20 mA	154 mA	77	

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.



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Specifications

4U SERIES

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 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 ⁹ ohms.
Switching Frequency.....		200kHz, min.
Operating Temperature Range.....		-25°C to + 71°C
Case Temperature (Plastic case).....		95°C max.
(Copper case).....		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:

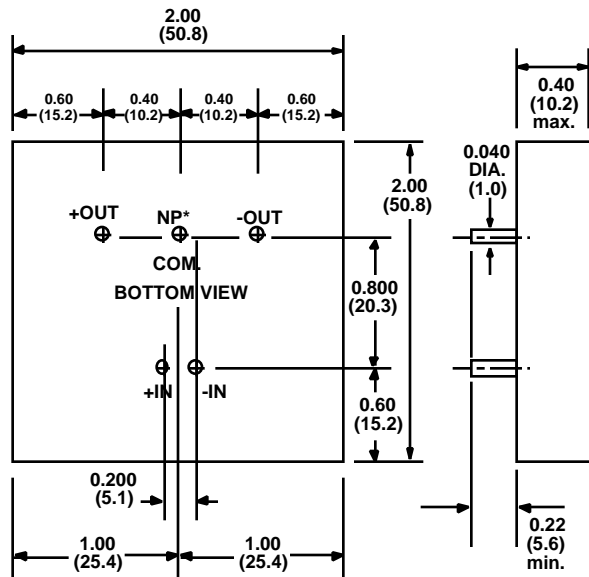
Standard Models.....		Non-Conductive Black Plastic
Suffix "M" Models.....		Black Coated Copper with Non-Conductive Base

NOTE:

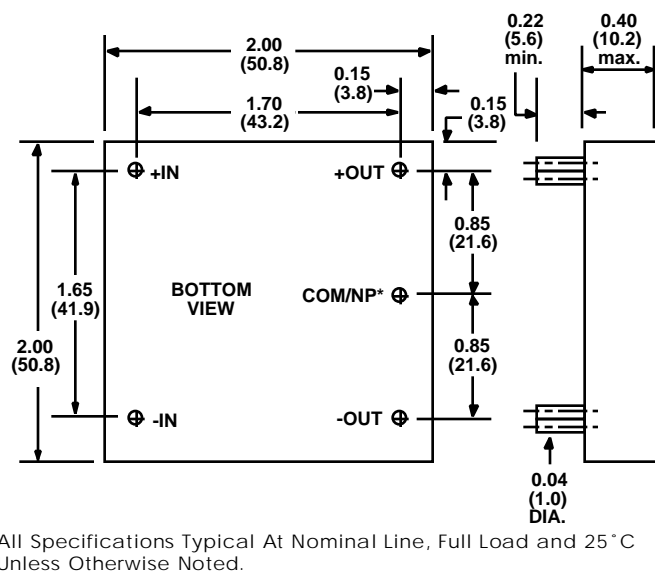
1. Measured From High Line to Low Line
2. Measured From Full Load to 1/4 load
3. Determine the Correct Fuse Size by Calculating the Maximum DC Current Drain at Low Line Input, Maximum Load and Then Adding 20 to 25% to Get Desired Fuse Size.
4. Alternative Pin Configuration Suffix "S"

CASE C

STANDARD PIN CONFIGURATION



ALTERNATIVE PIN CONFIGURATION SUFFIX "S"



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