

Regulated DC/DC Converter 15Watt

4:1 Input Voltage Range Y15 Series

SPECIFICATIONS: Typical @ 25°C Under Full Load and Nominal Input Voltage Unless Otherwise Specified

INPUT

Input Voltage 9-36 VdC
 Input Filter PI Network

OUTPUT

Voltage Accuracy + Output $\pm 1.5\%$
 - Output $\pm 2\%$
 Line Regulation: 10W, 15W Series: $\pm 1\%$ Max
 5W Series: $\pm 0.5\%$ Max
 Load Regulation: 5W Series: $\pm 1\%$ Max
 10W Series: Single: $\pm 1\%$ Max
 Dual: $\pm 2\%$ Max
 15W Series: Single: $\pm 0.5\%$ Max
 Dual: $\pm 2\%$ Max
 Ripple and Noise (20 MHz BW): 1% P-P Max

Transient Response (Full Load to
 1/2 Load:) 20m Sec Max to
 1% of Final Value

Over Voltage Protection Built-in
 Short Circuit Protection Fold Back

GENERAL

Efficiency: 5W Series 72%
 10W Series 80%
 15W Series 86%
 Isolation Voltage: 500 VdC Min
 Isolation Resistance: 10^9 Ohms
 Switching Frequency: 5W and 10W Series: 50-70 KHz
 15W Series: 100 KHz

ENVIRONMENTAL:

Operating Temperature: - 25°C to + 71°C
 Storage Temperature: - 55°C to + 105°C
 Temperature Coefficient: 0.02% / °C Max
 Cooling: Free Air Convection
 EMI/RFI: Six Sided Continuous Metal Shield

PHYSICAL:

Case Size: 2"x2"x0.4" (50.8x50.8x10.2mm)
 Case Material: Black Coated Copper with Non
 Conductive Metal Base
 Weight: 3 oz. (9 grams)

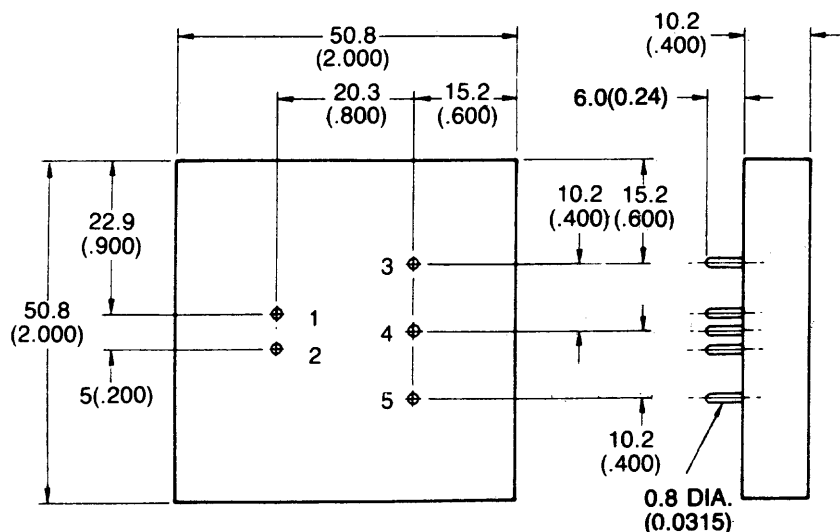
15W DC/DC CONVERTER

	INPUT VOLTAGE (VdC)	OUTPUT VOLTAGE (VdC)	OUTPUT CURRENT (mA)	MODEL NO.	CASE	PRICE 1-9 QTY.
SINGLE VOLTAGE	9-36	5	3000	Y15-12S5	B2	\$98.00
		12	1250	Y15-12S12	B2	\$98.00
		15	1000	Y15-12S15	B2	\$98.00
	18-72	5	3000	Y15-24S5	B2	\$98.00
		12	1250	Y15-24S12	B2	\$98.00
		15	1000	Y15-24S15	B2	\$98.00
DUAL VOLTAGE	9-36	± 12	± 625	Y15-12-12	B2	\$105.00
		± 15	± 500	Y15-12-15	B2	\$105.00
		± 12	± 625	Y15-24-12	B2	\$105.00
	18-72	± 15	± 500	Y15-24-15	B2	\$105.00

CASE B2

PIN	SINGLE	DUAL
1	+ INPUT	+ INPUT
2	- INPUT	- INPUT
3	+ OUTPUT	+ OUTPUT
4	NO PIN*	COMMON
5	- OUTPUT	- OUTPUT

*TRIM FOR 15W SERIES



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Regulated DC/DC Converter 15Watt

4:1 Input Voltage Range Triple Voltage Y15 Series

SPECIFICATIONS: Typical @ 25°C Under Full Load and Nominal Input Voltage Unless Otherwise Specified

15W DC/DC CONVERTER TRIPLE VOLTAGE

INPUT

Input Voltage:9-36 Vdc
18-72 Vdc
 Input FilterPI Network

OUTPUT

Voltage Accuracy:(+ V1 & - V2): $\pm 2\%$ Max
(+ V3): $\pm 3\%$ Max
 Line Regulation (@ Full Load): $\pm 1\%$ Max
 Load Regulation (@ Full Load to
 1/2 Load): $\pm 2\%$ Max
 Ripple and Noise (20MHz BW)200 mVp-P
 Transient Response (Full Load to
 1/2 Load)200m SEC Max
to 1% of Final Value

Short CircuitFold Back
 Over Voltage ProtectionBuilt-in

Cooling:Free Air Convection
 EMI/RFI:Six Sided Continuous Metal Shield

PHYSICAL:

Case Size:3"x2.60"x 0.40"
(76.2 x 66.0 x 20.8mm)
 Case Material:Black Coated Copper With
Non-Conductive Metal Base
 Weight:10 oz. (280 grams)

GENERAL

Efficiency (@ Full Load):80%
 Isolation Voltage:500 Vdc Min.
 Isolation Resistance:1000 MOhms
 Switching Frequency:50KHz Min.

ENVIRONMENTAL:

Operating Temperature Range:-25°C to +71°C
 Storage Temperature Range:-55°C to +125°C
 Cooling:Free Air Convection
 EMI/RFI:Six Sided Continuous Metal Shield

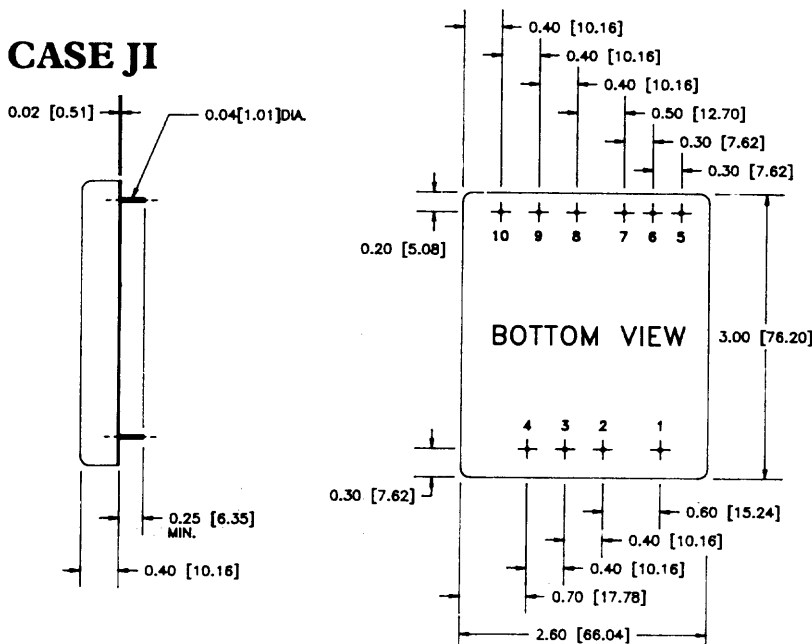
PHYSICAL:

Case Size:3"x2.60"x 0.40"
(76.2 x 66.0 x 20.8mm)
 Case Material:Black Coated Copper With
Non-Conductive Metal Base
 Weight:10 oz. (280 grams)

	INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA)	MODEL NO.	* CASE	PRICE 1-9 QTY.
TRIPLE VOLTAGE	9-36	5 / ± 12	1500 / ± 310	Y15-12S5-12	J1	\$114.00
		5 / ± 15	1500 / ± 250	Y15-12S5-15	J1	\$114.00
		12 / + 5 / - 5	300 / 1500 / 500	Y15-12S12-5	J1	\$114.00
	18-72	5 / ± 12	1500 / ± 310	Y15-24S5-12	J1	\$114.00
		5 / ± 15	1500 / ± 250	Y15-24S5-15	J1	\$114.00
		12 / + 5 / - 5	300 / 1500 / 500	Y15-24S12-5	J1	\$114.00

* Available in 2" X 2" X 0.40" package. Use suffix B2A after model number. Contact Factory for details.

CASE J1



PIN	SINGLE OUTPUT	DUAL OUTPUT	TRIPLE
1	REMOTE ON/OFF	REMOTE ON/OFF	PIN
2	+ INPUT	+ INPUT	+ INPUT
3	- INPUT	- INPUT	- INPUT
4	NO PIN	NO PIN	NO PIN
5	NO PIN	+ OUTPUT	+ OUTPUT
6	OUTPUT TRIM	COMMON	COMMON
7	NO PIN	- OUTPUT	- OUTPUT
8	+ OUTPUT	OUTPUT TRIM	+5V OUTPUT
9	- OUTPUT	NO PIN	NO PIN
10	NO PIN	NO PIN	NO PIN

