

# Regulated DC/DC Converter 25Watt Y25 Series 4:1 Input Range

## SPECIFICATIONS:

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

### INPUT

Voltage Range: ..... 9-36 VdC  
..... 18-72 VdC

### OUTPUT

Voltage Accuracy: ..... Single  $\pm 1\%$   
..... Dual  $\pm 1\%$  (w/Balance Load)  
Line Regulation: ..... Case JY:  $\pm 0.02\%$  Max  
..... Case JI: Single  $\pm 0.05\%$  Max  
..... Dual:  $\pm 1\%$  Max  
Load Regulation: ..... Case JY: Single  $\pm 1\%$  Max  
..... Dual:  $\pm 2\%$  Max  
..... Case JI: Single  $\pm 0.5\%$   
..... Dual:  $\pm 2\%$  Max  
Ripple and Noise (20 MHz BW): ..... 0.5 - 1% P-P Max  
Over Voltage Protection: ..... Built-in  
Short Circuit Protection: ..... Fold Back

### GENERAL

Efficiency: ..... Case JY: 82%  
..... Case JI: 84%  
Isolation Voltage: ..... 500 VdC  
Isolation Resistance: .....  $10^9$  Ohms  
Switching Frequency: ..... 100KHz

### ENVIRONMENTAL

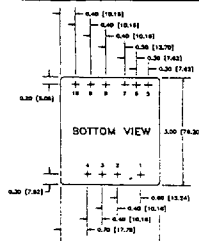
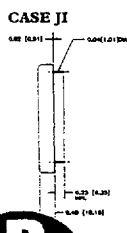
Operating Temperature: ..... - 25°C to + 71°C  
Storage Temperature: ..... - 55°C to + 105°C  
Temperature Coefficient (@ Full Load):  $0.02\%$ °C Max  
Cooling: ..... Free Air Convection  
EMI/RFI: ..... Six Sided Continuous Metal Case

### PHYSICAL:

Case Material: ..... Black Coated Copper with Non-Conductive Base  
Case Size: ..... Case JY: 3" x 2.60" x 0.82" (76.2 x 66.0 x 20.83mm)  
..... Case JI: 3" x 2.60" x 0.40" (76.2 x 66.0 x 10.2mm)  
Weight: ..... Case JY: 10 oz. (280 grams)  
..... Case JI: 5 oz (156 grams)  
Remote On/Off Control ..... Supply On = 5.5V or Open Circuit, Supply Off = 0-0.8V  
..... Logic Input Reference to Minus Input

## 25/30W DC/DC CONVERTER

	INPUT VOLTAGE (VdC)	OUTPUT VOLTAGE (VdC)	OUTPUT CURRENT (mA)	MODEL NO.	CASE	PRICE 1-9 QTY.
<b>SINGLE VOLTAGE</b>	9-36	5	5000	Y25-12S5	JY	\$118.00
		5	5000	Y25-12S5-JI	JI*	\$128.00
		12	2500	Y25-12S12	JY	\$118.00
		12	2500	Y25-12S12-JI	JI*	\$128.00
		15	2000	Y25-12S15	JY	\$118.00
		15	2000	Y25-12S15-JI	JI*	\$128.00
	18-72	5	5000	Y25-24S5	JY	\$118.00
		5	5000	Y25-24S5-JI	JI*	\$128.00
		12	2500	Y25-24S12	JY	\$118.00
		12	2500	Y25-24S12-JI	JI*	\$128.00
15		2000	Y25-24S15	JY	\$118.00	
15		2000	Y25-24S15-JI	JI*	\$128.00	
<b>DUAL VOLTAGE</b>	9-36	$\pm 12$	$\pm 1250$	Y25-12-12	JY	\$123.00
		$\pm 12$	$\pm 1250$	Y25-12-12-JI	JI*	\$133.00
		$\pm 15$	$\pm 1000$	Y25-12-15	JY	\$123.00
		$\pm 15$	$\pm 1000$	Y25-12-15-JI	JI*	\$133.00
		$\pm 12$	$\pm 1250$	Y25-24-12	JY	\$123.00
		$\pm 12$	$\pm 1250$	Y25-24-12-JI	JI*	\$133.00
	18-72	$\pm 15$	$\pm 1000$	Y25-24-15	JY	\$123.00
		$\pm 15$	$\pm 1000$	Y25-24-15-JI	JI*	\$133.00

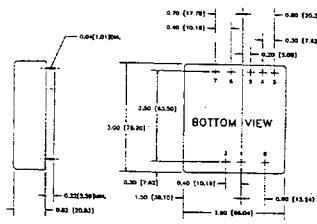


PIN	SINGLE OUTPUT	DUAL OUTPUT	TRIPLE
1	REMOTE ON/OFF	REMOTE ON/OFF	PIN
2	- INPUT	+ INPUT	- INPUT
3	- INPUT	- INPUT	- INPUT
4	NO PIN	NO PIN	NO PIN
5	NO PIN	+ OUTPUT	+ OUTPUT
6	OUTPUT TRIM	COMMON	COMMON
7	NO PIN	- OUTPUT	- OUTPUT
8	+ OUTPUT	OUTPUT TRIM	+5V OUTPUT
9	- OUTPUT	NO PIN	NO PIN
10	NO PIN	NO PIN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

### \*LOW PROFILE PACKAGE

#### CASE JY

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



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