



# 54D/60D/70D SERIES

## 3WATT 24PIN DIL DC-DC CONVERTER

### FEATURES

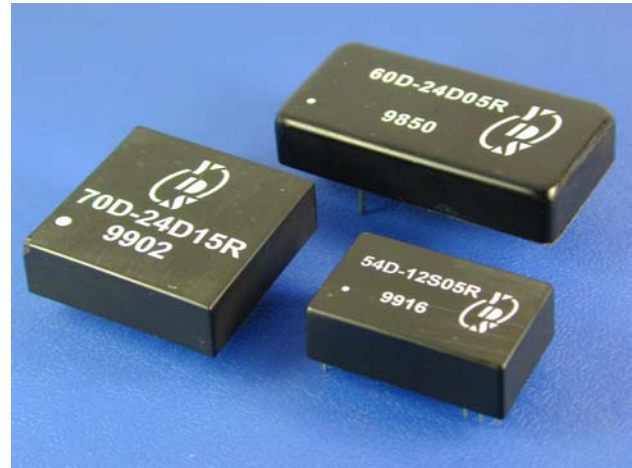
- UP TO 3 WATTS OUTPUT POWER
- 54D 24PIN DIL (1.25x0.8x0.4 INCHES) PACKAGE
- 60D 2x1x0.4 INCHES PACKAGE
- 70D 1.3x1.3x0.4 INCHES PACKAGE
- 500VDC ISOLATION
- PI INPUT FILTER
- UNREGULATED & REGULATED OUTPUT TYPES
- LOW RIPPLE AND NOISE

### GENERAL SPECIFICATIONS

- OUTPUT RIPPLE & NOISE : 50mVp-p(20MHz B.W.)
- ISOLATION RESISTANCE : 100MΩ MIN @500VDC
- SWITCHING FREQUENCY : 20KHz TYP.
- OPERATING TEMPERATURE : 0 °C TO 70°C
- STORAGE TEMPERATURE RANGE : -40°C TO 100°C
- EFFICIENCY(UNREGULATED) : 70% TYP
- (REGULATED) : 50% TYP
- SHORT CIRCUIT PROTECTION : CONTINUOUS

### ELECTRICAL SPECIFICATIONS

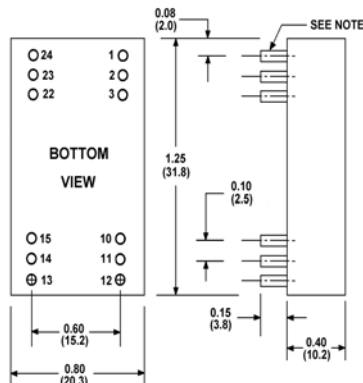
- INPUT VOLTAGE RANGE : ±10%
- OUTPUT VOLTAGE ACCURACY : ±5%
- LINE REGULATION (REGULATED) : ±0.3%
- UNREGULATED (PER 1% CHAGE IN INPUT VOLTAGE) : ±1.2%
- LOAD REGULATION (REGULATED) : ±0.5%
- UNREGULATED (FOR LOAD CHANGE FROM 100% TO 20%) : ±10%



(Typical at nominal input , rated load and 25°C unless otherwise specified)

PART NO.	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY (%)
54D/60D/70D-05S05R	5VDC	5VDC	600mA	60
54D/60D/70D-05S12R	5VDC	12VDC	250mA	65
54D/60D/70D-05D12R	5VDC	±12VDC	±125mA	65
54D/60D/70D-12S12R	12VDC	12VDC	250mA	65
54D/60D/70D-12S15R	12VDC	15VDC	200mA	65
54D/60D/70D-12D15R	12VDC	±15VDC	±100mA	65
54D/60D/70D-24S05R	24VDC	5VDC	600mA	60
54D/60D/70D-24D12R	24VDC	±12VDC	±125mA	65
54D/60D/70D-24D15R	24VDC	±15VDC	±100mA	65
54D/60D/70D-48S12R	48VDC	12VDC	250mA	65
54D/60D/70D-48D12R	48VDC	±12VDC	±125mA	65
54D/60D/70D-48D15R	48VDC	±15VDC	±100mA	65

### MARKINGS AND DIMENSIONS



### PIN CONNECTION

Pin	SINGLE OUTPUT	DUAL OUTPUT
1	+INPUT	+INPUT
2	NC	-OUTPUT
3	NC	COMMON
10	-OUTPUT	COMMON
11	+OUTPUT	+OUTPUT
12	-INPUT	-INPUT
13	-INPUT	-INPUT
14	+OUTPUT	+OUTPUT
15	-OUTPUT	COMMON
22	NC	COMMON
23	NC	-OUTPUT
24	+INPUT	+INPUT

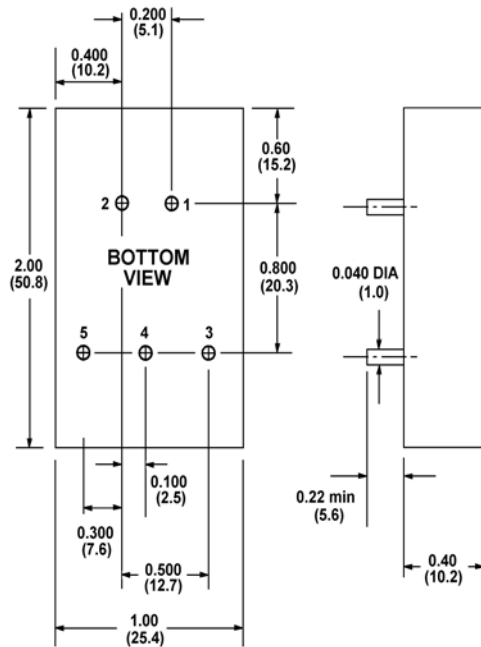


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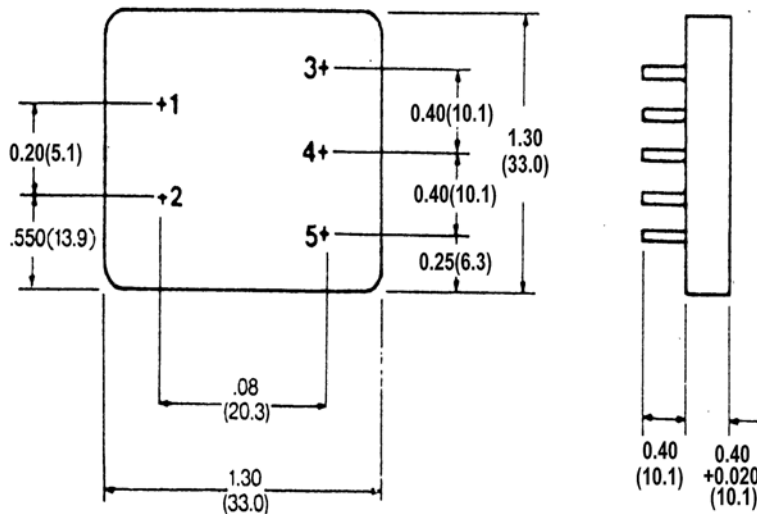
3WATT 24PIN DIL DC-DC CONVERTER

## MARKINGS AND DIMENSION

## PIN CONNECTION



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



Pin	SINGLE OUTPUT
1	+INPUT
2	-INPUT
3	NO PIN
4	+OUTPUT
5	-OUTPUT

Pin	DUAL OUTPUT
1	+INPUT
2	-INPUT
3	+OUTPUT
4	COMMON
5	-OUTPUT

Dimensions: inches/mm

Unless otherwise specified, all tolerances are  $\pm 0.005/\pm 0.13$