

54D/60D/70D – SERIES

3 WATT 24 PIN DIL DC-DC CONVERTER

FEATURES

- Up to 3 WATT output power
- 54D 24 pin DIL (1.25 x 0.8 0.4 inches) package
- 60D 2 x 1 x 0.4 inches package.
- 70D 1.3 x 1.3 x 0.4 inches package
- 500 VDC Isolation
- PI input filter
- Unregulated and regulated output types
- Low ripple and noise



GENERAL SPECIFICATIONS

Output ripple and 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% Change in input voltage)	: ±1.2%
Load regulation (Regulated)	: ±0.5%
Unregulated (For load change From 100% to 20%)	: ±10%

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
54D/60D/70D-05S05R	5	5	600	60
54D/60D/70D-05S12R	5	12	250	65
54D/60D/70D-05D12R	5	±12	±125	65
54D/60D/70D-12S12R	12	12	250	65
54D/60D/70D-12S15R	12	15	200	65
54D/60D/70D-12D15R	12	±15	±100	65
54D/60D/70D-24S05R	24	5	600	60
54D/60D/70D-24D12R	24	±12	±125	65
54D/60D/70D-24D15R	24	±15	±100	65
54D/60D/70D-48S12R	48	12	250	65
54D/60D/70D-48D12R	48	±12	±125	65
54D/60D/70D-48D15R	48	±15	±100	65

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

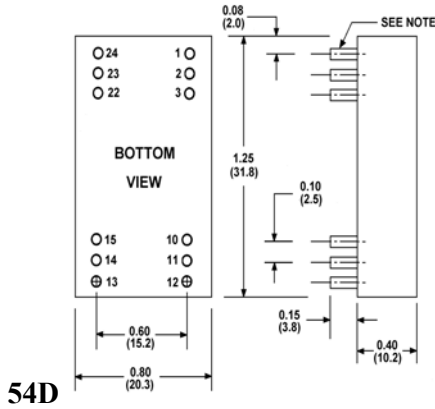
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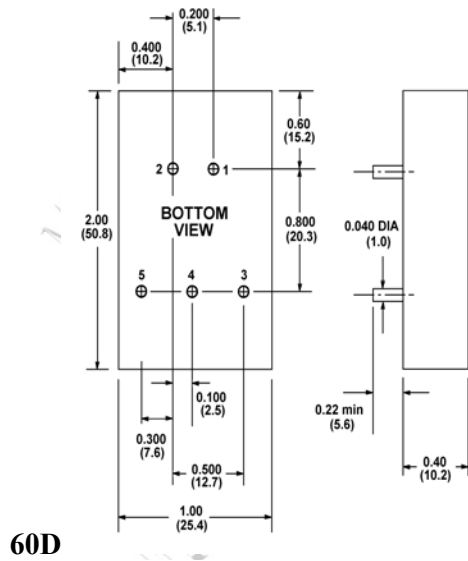
MARKINGS AND DIMENSIONS

PIN CONNECTION

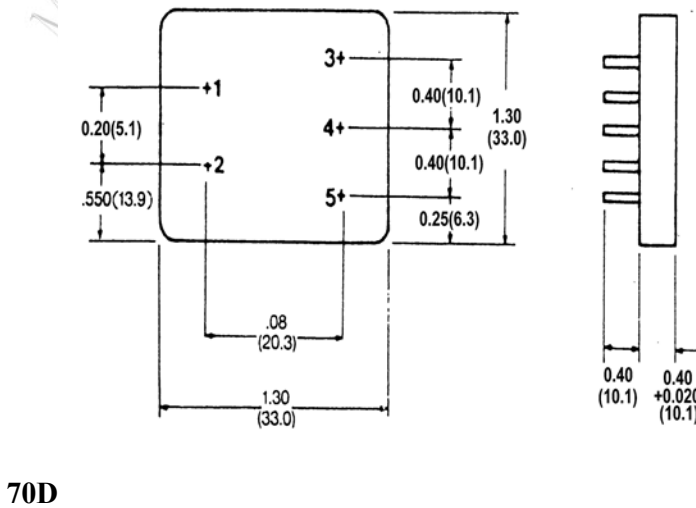
Dimensions: inches/mm unless otherwise specified, all tolerances $\pm .005/\pm 0.13$



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



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