

# TSS 68D1 SERIES

## WIDE INPUT VOLTAGE RANGE 3 WATTS DC-DC CONVERTER

### FEATURES

- 2:1 WIDE INPUT VOLTAGES:9-18V,18-36V,36-72V
- 3 WATTS 24PIN DIL(1.25x0.8x0.4inches) PACKAGE
- EFFICIENCY TO 80%
- PI INPUT FILTER



### GENERAL SPECIFICATIONS

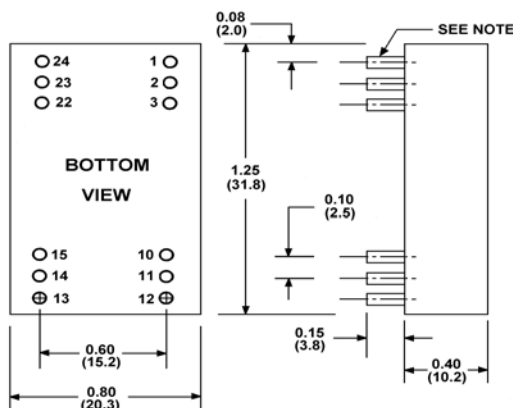
- SWITCHING FREQUENCY : 100KHz TYP.
- OUTPUT RIPPLE & NOISE : 100mVp-p(20MHz B.W.)
- ISOLATION VOLTAGE : 500VDC
- ISOLATION RESISTANCE :  $10^9$  ohms
- STORAGE TEMPERATURE RANGE : -40°C TO 100°C
- OPERATING TEMPERATURE RANGE : -25°C TO +71°C
- SHORT CIRCUIT PROTECTION : CONTINUOUS
- CASE MATERIAL : BLACK COATED COPPER WITH NON-CONDUCTIVE BASE

### ELECTRICAL SPECIFICATIONS

- INPUT VOLTAGE RANGE : 12V nominal ...9-18V  
: 24V nominal ...18-36V  
: 48V nominal ...36-72V
- OUTPUT VOLTAGE ACCURACY :  $\pm 2\%$
- LINE REGULATION :  $\pm 0.5\%$
- LOAD REGULATION(SINGLE) :  $\pm 0.5\%$
- LOAD REGULATION(DUAL) :  $\pm 2\%$
- EFFICIENCY : see table

PART NO.	INPUT RANGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY (%)
68D1-12S05R	9-18VDC	5VDC	500mA	74
68D1-12S12R	9-18VDC	12VDC	250mA	79
68D1-12S15R	9-18VDC	15VDC	200mA	79
68D1-12D05R	9-18VDC	$\pm 5$ VDC	$\pm 250$ mA	74
68D1-12D12R	9-18VDC	$\pm 12$ VDC	$\pm 125$ mA	76
68D1-12D15R	9-18VDC	$\pm 15$ VDC	$\pm 100$ mA	76
68D1-24S05R	18-36VDC	5VDC	500mA	74
68D1-24S12R	18-36VDC	12VDC	250mA	79
68D1-24S15R	18-36VDC	15VDC	200mA	79
68D1-24D05R	18-36VDC	$\pm 5$ VDC	$\pm 250$ mA	74
68D1-24D12R	18-36VDC	$\pm 12$ VDC	$\pm 125$ mA	79
68D1-24D15R	18-36VDC	$\pm 15$ VDC	$\pm 100$ mA	79
68D1-48S05R	36-72VDC	5VDC	500mA	74
68D1-48S12R	36-72VDC	12VDC	250mA	79
68D1-48S15R	36-72VDC	15VDC	200mA	78
68D1-48D05R	36-72VDC	$\pm 5$ VDC	$\pm 250$ mA	74
68D1-48D12R	36-72VDC	$\pm 12$ VDC	$\pm 125$ mA	79
68D1-48D15R	36-72VDC	$\pm 15$ VDC	$\pm 100$ mA	79

### MARKINGS AND DIMENSIONS



Dimensions:inches/mm

### PIN CONNECTION

PIN	SINGLE	DUAL
2,3	-INPUT	-INPUT
9	NC	COMMON
11	NC	-OUTPUT
14	+OUTPUT	+OUTPUT
16	-OUTPUT	COMMON
22,23	+INPUT	+INPUT

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