

# TSS 68D8 SERIES

## WIDE INPUT VOLTAGE RANGE 8 WATTS DC-DC CONVERTER

### FEATURES

- 2:1 WIDE INPUT VOLTAGES:9-18V,18-36V,36-72V
- 8 WATTS 24PIN DIL(1.25x0.8x0.4inches) PACKAGE
- EFFICIENCY TO 82%
- PI INPUT FILTER



### GENERAL SPECIFICATIONS

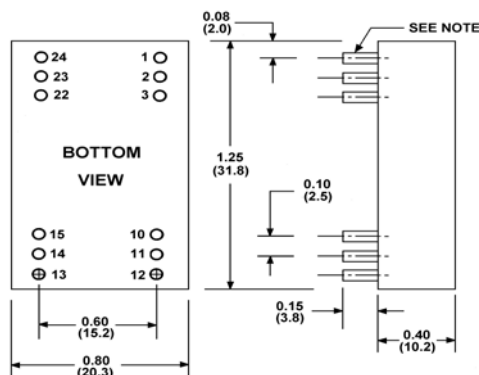
- SWITCHING FREQUENCY : 300KHz TYP.
- OUTPUT RIPPLE & NOISE : 100mVp-p(20MHz B.W.)
- ISOLATION VOLTAGE : 1600VDC
- ISOLATION RESISTANCE :  $10^9$  ohms
- STORAGE TEMPERATURE RANGE : -40°C TO 100°C
- OPERATING TEMPERATURE RANGE : -25°C TO +71°C
- SHORT CIRCUIT PROTECTION : CONTINUOUS
- CASE MATERIAL : 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) :  $\pm 0.5\%$  (F.L. to 10% Load)
- LOAD REGULATION(DUAL) :  $\pm 1.0\%$  (F.L. to 1 / 4 Load)
- EFFICIENCY : see table

PART NO.	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		EFFICIENCY (%)
				NO LOAD	FULL LOAD	
68D8-12S03R	9-18VDC	3.3VDC	2000mA	-	679mA	81
68D8-12S05R	9-18VDC	5VDC	1500mA	-	762mA	82
68D8-12S12R	9-18VDC	12VDC	666mA	-	774mA	86
68D8-12S15R	9-18VDC	15VDC	533mA	-	803mA	83
68D8-12D05R	9-18VDC	$\pm 5$ VDC	$\pm 800$ mA	-	803mA	83
68D8-12D12R	9-18VDC	$\pm 12$ VDC	$\pm 333$ mA	-	793mA	84
68D8-12D15R	9-18VDC	$\pm 15$ VDC	$\pm 267$ mA	-	795mA	84
68D8-24S03R	18-36VDC	3.3VDC	2000mA	-	344mA	80
68D8-24S05R	18-36VDC	5VDC	1500mA	-	372mA	84
68D8-24S12R	18-36VDC	12VDC	666mA	-	401mA	83
68D8-24S15R	18-36VDC	15VDC	533mA	-	401mA	83
68D8-24D05R	18-36VDC	$\pm 5$ VDC	$\pm 800$ mA	-	402mA	83
68D8-24D12R	18-36VDC	$\pm 12$ VDC	$\pm 333$ mA	-	392mA	85
68D8-24D15R	18-36VDC	$\pm 15$ VDC	$\pm 267$ mA	-	393mA	85
68D8-48S03R	36-72VDC	3.3VDC	2000mA	-	172mA	80
68D8-48S05R	36-72VDC	5VDC	1500mA	-	188mA	83
68D8-48S12R	36-72VDC	12VDC	666mA	-	198mA	84
68D8-48S15R	36-72VDC	15VDC	533mA	-	198mA	84
68D8-48D05R	36-72VDC	$\pm 5$ VDC	$\pm 800$ mA	-	198mA	84
68D8-48D12R	36-72VDC	$\pm 12$ VDC	$\pm 333$ mA	-	196mA	85

### MARKINGS AND DIMENSIONS



Dimensions: inches/mm

### PIN CONNECTIONS

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  $\pm 0.005/\pm 0.13$