TSS 87DS SERIES

WIDE INPUT VOLTAGE RANGE

15 WATTS DC-DC CONVERTER

FEATURES

- 4:1 WIDE INPUT VOLTAGES:9-36V,20-72V
- 15 WATTS (2x1.6x0.52inches) PACKAGE
- EFFICIENCY TO 82%
- PI INPUT FILTER

GENERAL SPECIFICATIONS

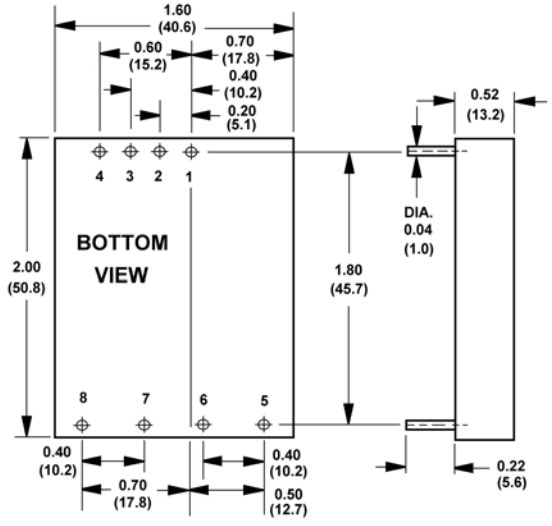
- SWITCHING FREQUENCY : 300KHz TYP.
- OUTPUT RIPPPLE & NOISE : 100mVp-p(20MHz B.W.)
- ISOLATION VOLTAGE : 1500VDC
- ISOLATION RESISTANCE :10^9 ohms
- STORAGE TEMPERATURE RANGE :-40℃ TO 100℃
- OPERATING TEMPERATURE RANGE :-25℃ TO +71℃
- SHORT CIRCUIT PROTECTION : CONTINUOUS
- CASE MATERIAL : BLACK COATED METAL WITH NON-CONDUCTIVE BASE

ELECTRICAL SPECIFICATIONS

- INPUT VOLTAGE RANGE :24V nominal …9-36V
  :48V nominal …20-72
- OUTPUT VOLTAGE ACCURACY :±2%
- LINE REGULATION :±1.0%(HL-LL)
- LOAD REGULATION(SINGLE) :±1.0%(FL-NL)
- LOAD REGULATION(DUAL) :±5%(FL-NL)
- LOAD REGULATION(DUAL) :±1%(FL-1/2FL)
- EFFICIENCY :see table
- EMI/RFI :six-sided continuous shield

PART N0.	INPUT RANGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY (%)
87DS-24S05R	9-36VDC	5VDC	3000mA	80
87DS-24S12R	9-36VDC	12VDC	1250mA	82
87DS-24S15R	9-36VDC	15VDC	1000mA	82
87DS-24D05R	9-36VDC	±5VDC	±1500mA	80
87DS-24D12R	9-36VDC	±12VDC	±625mA	82
87DS-24D15R	9-36VDC	±15VDC	±500mA	82
87DS-48S05R	20-72VDC	5VDC	3000mA	80
87DS-48S12R	20-72VDC	12VDC	1250mA	82
87DS-48S15R	20-72VDC	15VDC	1000mA	82
87DS-48D05R	20-72VDC	±5VDC	±1500mA	80
87DS-48D12R	20-72VDC	±12VDC	±625mA	82
87DS-48D15R	20-72VDC	±15VDC	±500mA	82

MARKINGS AND DIMENSIONS



ALL DIMENSIONS IN INCHES(mm)

PIN CONNECTION

PIN#	SINGLE	DUAL
1	+Vin	+Vin
2	-Vin	-Vin
3	N/C	N/C
4	Ctrl	Ctrl
5	No Pin	+Vout
6	+VOUT	Common
7	Common	-Vout
8	Trim	Trim

*Ctrl: Remote on/off Control

Dimensions:inches/mm Unless otherwise specified, all tolerances are ±.005/±0.13

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