



# 87D SERIES

## WIDE INPUT RANGE DC-DC CONVERTER MOSFET 15 WATT

### FEATURES

- 15WATTS ISOLATED OUTPUT
- SINGLES, DUAL AND TRIPLES
- REMOTE ON/OFF CONTROL
- EFFICIENCY 80%
- 2x2x0.52 INCHES PACKAGE
- SIX-SIDED SHIELDING
- WIDE 4:1 INPUT RANGE



### GENERAL SPECIFICATIONS

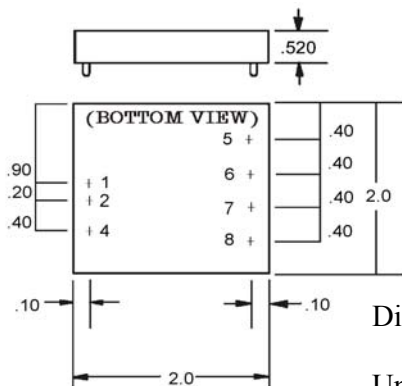
- ISOLATION VOLTAGE : 1500VDC
- ISOLATION RESISTANCE :  $10^9$  ohms
- SWITCHING FREQUENCY : 100KHz TYP.
- OPERATING TEMPERATURE RANGE : -25°C TO +71°C
- STORAGE TEMPERATURE RANGE : -55°C TO +105°C
- EMI/RFI : SIX-SIDED CONTINUOUS SHIELD
- CASE MATERIAL : BLACK COATED COPPER WITH NON-CONDUCTIVE BASE

### ELECTRICAL SPECIFICATIONS

- INPUT VOLTAGE RANGE : 24V nominal ...9-36V  
: 48V nominal ...20-72V
- INPUT FILTER : Pi Type
- OUTPUT VOLTAGE ACCURACY :  $\pm 1\%$  MAX.
- SINGLE OUTPUT ACCURACY :  $\pm 1\%$  MAX.
- DUAL +OUTPUT ACCURACY :  $\pm 3\%$  MAX.
- DUAL -OUTPUT ACCURACY :  $\pm 1\%$  MAX.
- TRIPLE 5V :  $\pm 5\%$  MAX.  
12V/15V :  $\pm 2\%$  MAX.  
-5V :  $\pm 1\%$  MAX.
- OUTPUT RIPPLE AND NOISE : 100mVp-p MAX(20MHz B.W.)
- LINE REGULATING SINGLE/DUAL :  $\pm 0.2\%$  MAX.  
(H.L TO L.L)TRIPLE :  $\pm 1\%$  MAX.
- LOAD REGULATING SINGLE/DUAL :  $\pm 1\%$  MAX.  
(F.L. TO 1/4 L.) TRIPLE :  $\pm 0.2\%$  MAX.
- SHORT CIRCUIT PROTECTION : CONTINUOUS

PART NO.	INPUT VOLTAGE	OUTPUT 1 VOLTAGE	OUTPUT 2 VOLTAGE	OUTPUT 3 VOLTAGE
87D-24S05R	9-36V	5V@3A		
87D-24S12R	9-36V	12V@1.25A		
87D-24S15R	9-36V	15V@1A		
87D-24D12R	9-36V		12V@0.625A	-12V@0.625A
87D-24D15R	9-36V		15V@0.5A	-15V@0.5A
87D-24S05RT12R	9-36V	5V@1.5A	12V@0.31A	-12V@0.31A
87D-24S05RT15R	9-36V	5V@1.5A	15V@0.25A	-15V@0.25A
87D-48S05R	20-72V	5V@3A		
87D-48S12R	20-72V	12V@1.25A		
87D-48S15R	20-72V	15V@1A		
87D-48D12R	20-72V		12V@0.625A	-12V@0.625A
87D-48D15R	20-72V		15V@0.5A	-15V@0.5A
87D-48S05RT12R	20-72V	5V@1.5A	12V@0.31A	-12V@0.31A
87D-48S05RT15R	20-72V	5V@1.5A	15V@0.25A	-15V@0.25A

### MARKINGS AND DIMENSION



### PIN CONNECTION

Pin	Single Output	Dual Output	Triple Output
1	+Vin	+Vin	+Vin
2	-Vin	-Vin	-Vin
3	No Pin	No Pin	No Pin
4	Control(Enable)	Control(Enable)	Control(Enable)
5	N O Pin	Output 2	Output 2
6	Output 1	Com (O/P Common)	Output 1
7	-Output 1	Output 3	Com (O/P Common)
8	Trim	Trim	Output 3