

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



ELECTRICAL SPECIFICATIONS

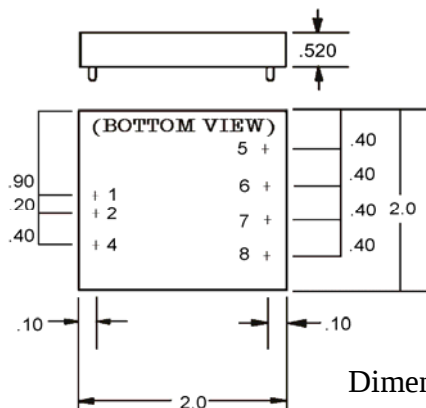
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|--|---|
| • INPUT VOLTAGE RANGE | :24V nominal ...9-36V
:48V nominal ...20-72V |
| • INPUT FILTER | :Pi Type |
| • OUTPUT VOLTAGE ACCURACY | :±1% MAX. |
| • SINGLE OUTPUT ACCURACY | :±1% MAX. |
| • DUAL +OUTPUT ACCURACY | :±3% MAX. |
| • DUAL -OUTPUT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

GENERAL SPECIFICATIONS

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

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



Dimensions:inches/mm

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

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