

87D – SERIES

WIDE INPUT DC-DC CONVERTER MOSFET 15 WATT

FEATURES

- 15 WATT isolated output
- Singles, Dual and Triples
- Efficiency to 80%
- 2 x 2 x 0.52 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	: ±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	: ±0.2% Max.
(H.L TO L.L)triple	: ±1% Max.
Load regulating Single/Dual	: ±1% Max.
(F.L. TO 1/4 L.) triple	: ±0.2% Max.
Short circuit protection	: Continuous

Part Number	Input Voltage Range (V)	Output 1 Voltage	Output 2 Voltage	Output 3 Voltage
87D-24S05R	9-36	5V@3A		
87D-24S12R	9-36	12V@1.25A		
87D-24S15R	9-36	15V@1A		
87D-24D12R	9-36		12V@0.625A	-12V@0.625A
87D-24D15R	9-36		15V@0.5A	-15V@0.5A
87D-24S05RT12R	9-36	5V@1.5A	12V@0.31A	-12V@0.31A
87D-24S05RT15R	9-36	5V@1.5A	15V@0.25A	-15V@0.25A
87D-48S05R	20-72	5V@3A		
87D-48S12R	20-72	12V@1.25A		
87D-48S15R	20-72	15V@1A		
87D-48D12R	20-72		12V@0.625A	-12V@0.625A
87D-48D15R	20-72		15V@0.5A	-15V@0.5A
87D-48S05RT12R	20-72	5V@1.5A	12V@0.31A	-12V@0.31A
87D-48S05RT15R	20-72	5V@1.5A	15V@0.25A	-15V@0.25A

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PIN CONNECTION

PIN	SINGLE OUTPUT	DUAL OUTPUT	TRIPLE OUTPUT
1	+INPUT	+INPUT	+INPUT
2	-INPUT	-INPUT	-INPUT
3	NO PIN	NO PIN	NO PIN
4	CONTROL (Enable)	CONTROL (Enable)	CONTROL (Enable)
5	NO 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

MARKING AND DIMENSION

Dimensions: inches/mm unless otherwise specified, all tolerances are $\pm 005/\pm 0.13$

