

87DS – SERIES

WIDE INPUT VOLTAGE RANGE 15 WATT DC-DC CONVERTER

FEATURES

- 4:1 wide Input voltage: 9-36V, 20-72V
- 15 WATT (2 x 1.6 x 0.52 inches) package.
- Efficiency to 82%
- PI input filter



GENERAL SPECIFICATIONS

Switching frequency	: 300KHz TYP.
Output ripple and noise	: 100mVp-p (20MHz B.W.)
Isolation voltage	: 1500VDC
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 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 Number	Input Voltage Range (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
87DS-24S05R	9-36	5	3000	80
87DS-24S12R	9-36	12	1250	82
87DS-24S15R	9-36	15	1000	82
87DS-24D05R	9-36	±5	±1500	80
87DS-24D12R	9-36	±12	±625	82
87DS-24D15R	9-36	±15	±500	82
87DS-48S05R	20-72	5	3000	80
87DS-48S12R	20-72	12	1250	82
87DS-48S15R	20-72	15	1000	82
87DS-48D05R	20-72	±5	±1500	80
87DS-48D12R	20-72	±12	±625	82
87DS-48D15R	20-72	±15	±500	82

PIN CONNECTION

PIN	SINGLE	DUAL
1	+INPUT	+INPUT
2	-INPUT	-INPUT
3	N/C	N/C
4	Ctrl	Ctrl
5	NO PIN	+OUTPUT
6	+OUTPUT	COMMON
7	COMMON	-OUTPUT
8	TRIM	TRIM

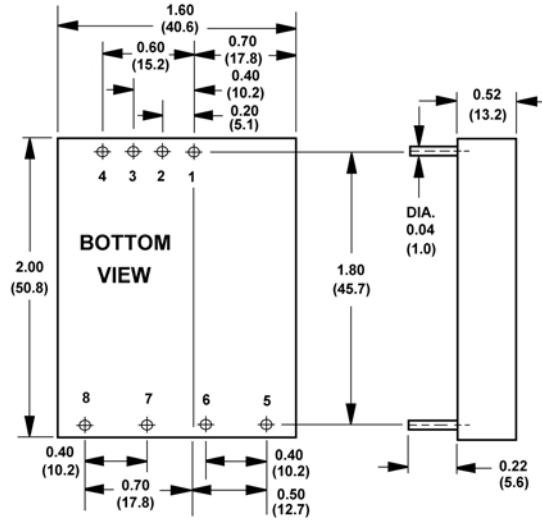
*Ctrl: Remote ON/OFF Control

87DS – SERIES

WIDE INPUT VOLTAGE RANGE 15 WATT DC-DC CONVERTER

MARKING AND DIMENSION

Dimensions: inches/mm unless otherwise specified, all tolerances are $\pm 0.05/\pm 0.13$



ALL DIMENSIONS IN INCHES(mm)