DB15 SERIES

15 Watts DIP Type
Wide Input
DC - DC Converter

FEATURES

- Ultra Compact Size:1.0"x1.0"x0.4"
- Industry Standard Package
- UL 94V-0 Package Material
- High Efficiency
- 100% Burn In
- 3 Years Warranty

SPECIFICATIONS

Input Voltage Range ..... 4:1 Input Range
Input Filter..... Pi Network
Protection..... Fuse Recommended
Voltage Setpoint Accuracy..... ± 2% max.
Temperature Coefficient..... 0.05%/°C
Ripple & Noise[1] (20MHz BW).....100mVp-p max.
Load Regulation[2]..... ± 0.5% max.
Line Regulation[3]..... ± 0.5% max.
Minimum Load ..... 10% of Full Load
Short Circuit Protection ..... Continuous
Over Load Protection ..... 150% Typ.
Transient Response (25% step load change) ..... 500uS max.
Efficiency..... 88% Typ.
Isolation Voltage..... 1500 or 3000VDC
Isolation Resistance..... 10^9 Ω min.
Isolation Capacitance ..... 1200pF max.
Switching Frequency..... 300KHz typ.
Operating Temperature ..... -40°C To +71°C
±5Vout ..... -40°C To +65°C
Storage Temperature ..... -55°C To +125°C
Humidity..... 95% max.
Cooling..... Free-Air Convection
Case Material..... Five-Side Shielded
Case Size ..... 25.4 * 25.4 * 9.9 mm
Weight ..... 20g Typ.
Packing .....10 pcs / tube ; 600 pcs per carton

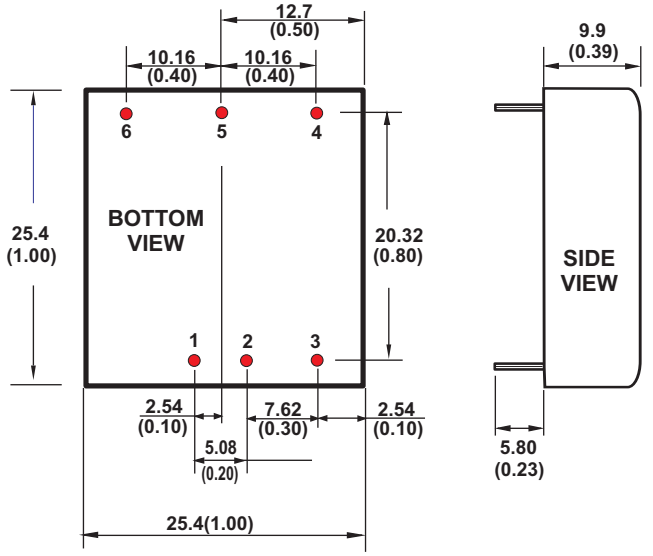
Note:

(1) Measured with 1uF ceramic capacitor connect to the output pins.
(2) Load Regulation is for output load current change from 10% to 100%.
(3) High line to low line.

Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	EEF.
DB15-40 (A3)	9-36	3.3	3000	86
DB15-41 (A3)	9-36	5	3000	87
DB15-42 (A3)	9-36	12	1250	88
DB15-43 (A3)	9-36	15	1000	88
DB15-44 (A3)	9-36	± 5	±1500	85
DB15-45 (A3)	9-36	±12	±625	88
DB15-46 (A3)	9-36	±15	±500	88
DB15-50 (A3)	18-75	3.3	3000	86
DB15-51 (A3)	18-75	5	3000	88
DB15-52 (A3)	18-75	12	1250	88
DB15-53 (A3)	18-75	15	1000	89
DB15-54 (A3)	18-75	± 5	±1500	86
DB15-55 (A3)	18-75	±12	±625	88
DB15-56 (A3)	18-75	±15	±500	89

Remark:
Suffix "A3" for 3KVDC isolation

MECHANICAL DRAWING (Unit: mm[inch])



PIN	SINGLE	DUAL
1	+Vin	+Vin
2	-Vin	-Vin
3	Remote On/Off	Remote On/Off
4	-Vout	-Vout
5	Trim	Com.
6	+Vout	+Vout