



EC9B-24S15-Modify

DC-DC CONVERTER

All Specifications are Typical at Nominal Line, Full load, and 25°C Unless Otherwise Noted

OUTPUT SPECIFICATIONS

OUTPUT VOLTAGE/CURRENT	Vo=48V/500mA
VOLTAGE ACCURACY	±1% max.
VOLTAGE BALANCE	±1% max.
RIPPLE AND NOISE, 20MHz BW	480mVp-p max.
LINE REGULATION	±0.2%.
LOAD REGULATION	±1.0%.
OVER VOLTAGE PROTECTION	Zener or TVS Clamp
SHORT CIRCUIT PROTECTION	Continuous
CURRENT LIMIT	110% to 150% Nominal Output
REMOTE ON/OFF	ON : >+3.5V or Open, OFF: <1.2VDC
EXTERNAL TRIM ADJ. RANGE	±10%

INPUT SPECIFICATIONS

INPUT VOLTAGE RANGE	24V	16.8 - 33VDC
UNDER VOLTAGE LOCKOUT	Power ON: 16V, Power OFF: 15V	
INPUT FILTER		Pi Network

GENERAL SPECIFICATIONS

EFFICIENCY	88% Typ.
ISOLATION VOLTAGE	1500Vdc min.
SWITCHING FREQUENCY	400KHz Typ.

ENVIRONMENTAL SPECIFICATIONS

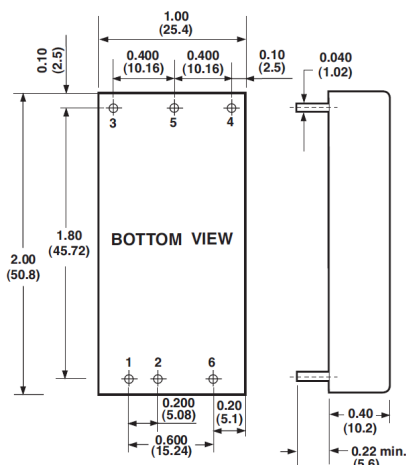
OPERATING TEMPERATURE RANGE	-40°C To +85°C
DERATING, ABOVE 65°C	Linearly to Zero Power at 105°C
CASE TEMPERATURE	105°C max.
THERMAL SHUTDOWN, CASE TEMP.	110°C typ.
COOLING	Natural Convection, 20ft./min.(0.1m/s)
STORAGE TEMPERATURE RANGE	-55°C To +125°C

PHYSICAL CHARACTERISTICS

DIMENSIONS	2x1x0.4 Inches (50.8 × 25.4 × 10.2mm)
CASE MATERIAL	Black Coated Copper with Non-Conductive Base

NOTE:

1. LINE REGULATION: measured from high line to low line
2. LOAD REGULATION: measured from full load to zero load
3. The output noise is measured with 0.1uF ceramic capacitor
4. Require a 47uF aluminum capacitor connected between +Vo and -Vo

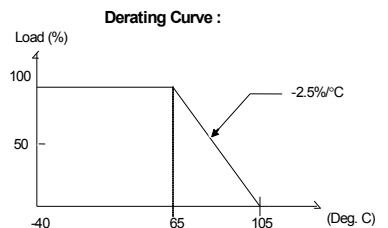


PIN CONNECTION	
Pin	Single Output
1	+V Input
2	-V Input
3	+V Output
4	Trim
5	-V Output
6	Remote ON/OFF

All Dimensions In Inches(mm)
Tolerance Inches: .xx= ±0.04, .xxx= ±0.010
Millimeters: .xx= ±1.0, .xxx= ±0.25

Derating:

- * Natural Convection, 20ft./min.(0.1m/s)
- * Case temperature limit to 105°C max.



- Operating Temperature : -40°C to 65°C → without derating
- Operating Temperature : 65°C to 105°C → derating (-2.5%/°C)