

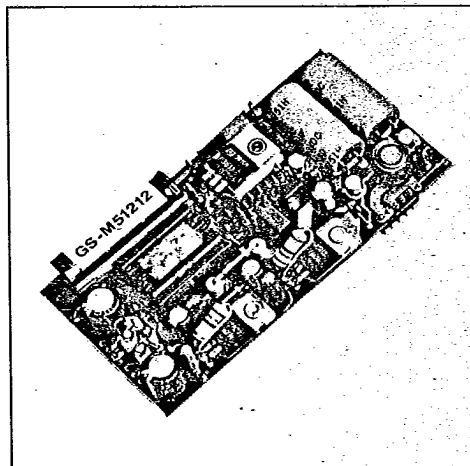
T-57-11

13W FIVE OUTPUT DC-DC CONVERTER FOR MODEM

PRELIMINARY DATA

FEATURES

- MTBF in excess of 200,000 hours
- 2.0A max output current on 5V output
- $\pm 12/125$ mA regulated outputs
- Wide input voltage range
- 75% efficiency
- Protection against short circuit
- Very low ripple and noise



DESCRIPTION

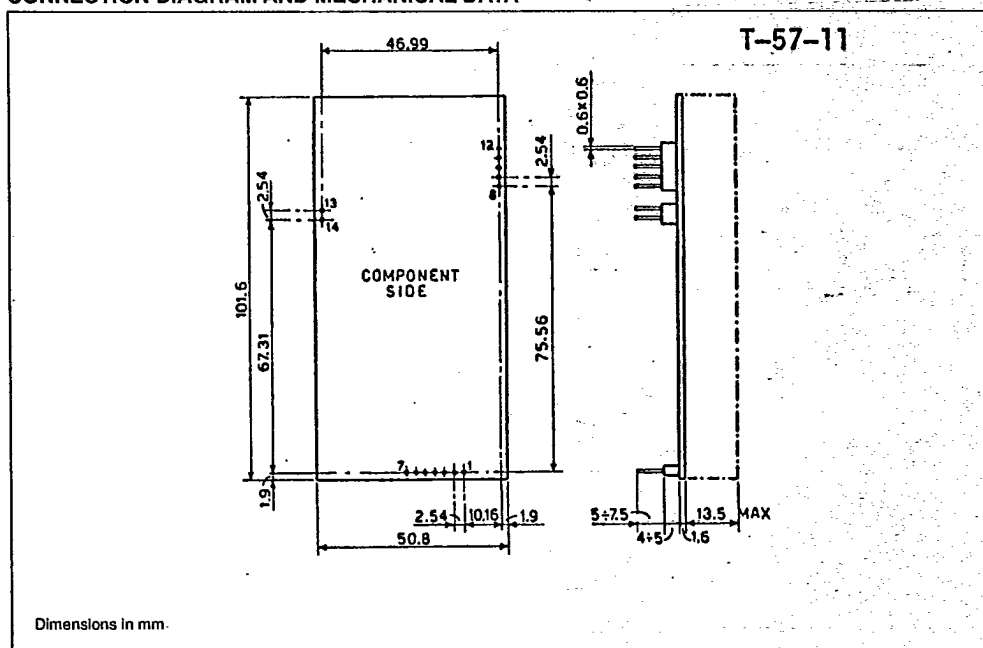
The GS-M51212 is a versatile module specifically designed for modem board power supply. The unit can be supplied either by center tapped transformer secondary winding or by a split DC voltage. Two unregulated outputs ($\pm 12V @ 125mA$) useful for LED lamps or relay supply are also available. The unit is characterized by 16.5mm maximum height to allow 24.4mm (1 inch) board spacing.

MAIN CHARACTERISTICS

Output	Output Voltage (V)	Output Current (A)	Input Voltage (V)	Output Ripple (mVpp)	Efficiency %
Vo1	$5.1 \pm 4\%$	2	-12/0/+12VDC $\pm 25\%$ or 9/0/9VAC $\pm 25\%$	50	75
Vo2	$+12.0 \pm 5\%$	0.125		20	
Vo3	$-12.0 \pm 5\%$	0.125		20	
Vo4	$+12.0$ unr.	0.125		1600	
Vo5	-12.0 unr.	0.125		1600	

CONNECTION DIAGRAM AND MECHANICAL DATA

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PIN DESCRIPTION

Pin	Function	Description
1	V _{in}	Input voltage. Recommended voltage is 9VAC or 12VDC.
2,3,4	Input GND	Return for Input voltage. The transformer center tap must be connected to these pins.
5	V _{in}	Input voltage. Recommended voltage is 9Vac or 12Vdc.
6	- 12V _{unr}	Unregulated -12V output. The voltage on this pin depends on the supplied input voltage.
7	+ 12V _{unr}	Unregulated +12V output. The voltage on this pin depends on the supplied input voltage.
8,9	+5V	Regulated 5V output.
10	Output GND	Return path for the regulated outputs. Connected to pin 2, 3 and 4.
11	- 12V	Regulated -12V output.
12	+ 12V	Regulated +12V output.
13	Enable	Hardware Enable pin. This pin must be tied to pin 14 to operate the unit.
14	Enable return	Return path for the Enable.

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Figure 1. GS-M51212 Block Diagram

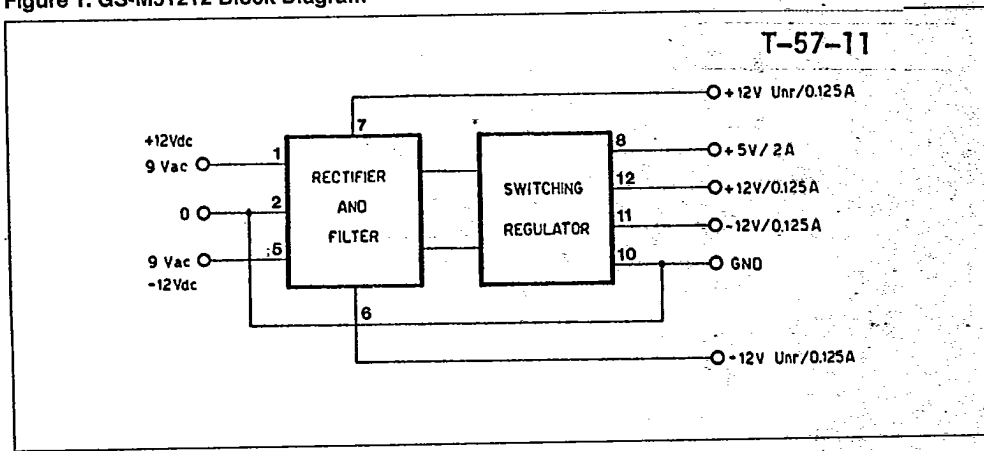


Figure 2. Typical Application

