

37.5 to 75 Watt 2.28x2.40 Inch Package M 4:1 Input Range

- o Efficiency to 84%
- o 300 kHz Switching Frequency
- o 4:1 Input Range
- o Regulated Single Output
- o Continuous Short Circuit Protection
- o Half Brick Size Meet Industrial Standard

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF
				NO LOAD	FULL LOAD	
75MRS48X3.3LC	18-75 VDC	3.3 VDC	15 A	50 mA	1320 mA	78
75MRS48X5LC		5 VDC	15 A		1905 mA	82
75MRS48X12LC		12 VDC	6.25 A		1860 mA	84
75MRS48X15LC		15 VDC	5 A		1860 mA	84
75MRS48X24LC		24 VDC	3.12 A		1860 mA	84

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

INPUT SPECIFICATIONS

Input Voltage Range		4:1
Undervoltage lockout	48 V _{in} power up 48 V _{in} power down	17 V 16 V
Positive Logic Remote ON/OFF ³⁺⁴⁾		
Input Filter		Pi Type

OUTPUT SPECIFICATIONS

Voltage Accuracy		±1% max.
Transient Response	25% Step Load Change	<500µ sec.
External Trim Adj. Range		±10%
Ripple and Noise, 20 MHz BW	3.3V, 5V	40 mV RMS max. 100 mV p-p max.
	12V, 15V	60 mV RMS max. 150 mV p-p max.
	24V	100 mV RMS max. 240 mV p-p max.
Temperature Coefficient		±0.03%/°C
Short Circuit Protection		Continuous
Line Regulation ¹⁾		±0.2% max.
Load Regulation ²⁾		±0.2% max.
Over Voltage Protection trip Range, % V _o nom		115-140%
Current Limit		110% ~ 160% Nominal Output

1) Measured from High Line to Low Line.

2) Measured from Full Load to Zero Load.

3) Logic Compatibility.....Open Collector Ref. to -Input.

Module ON.....Open Circuit

Module OFF.....<0.8 VDC

4) Suffix "R" to the Model Number with Negative Logic Remote ON/OFF.

GENERAL SPECIFICATION

Efficiency		see table
Isolation Voltage	Input / Output	1500 VDC min.
	Input / Case	1500 VDC min.
	Output / Case	1500 VDC min.
Isolation Resistance		10 MOhms min.
Switching Frequency		300 kHz
Recommended Reflow Soldering Pb-free*		see diagram
Operating Temperature Range		-40°C to +100°C
Storage Temperature Range		-55°C to +105°C
Thermal Shutdown, Case Temperature		+100°C
Dimensions		2.28x2.40x0.50 Inches (57.9x61.0x12.7 mm)
Case Material		Aluminium

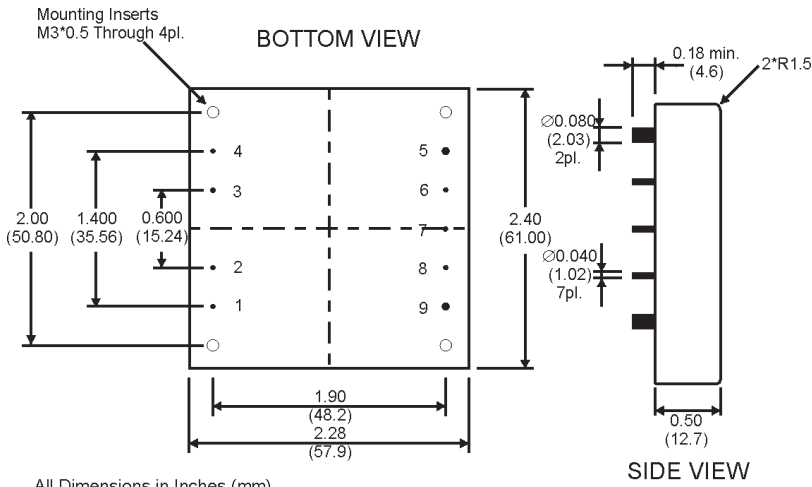
*) We do not recommend vapor phase soldering!

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MECHANICAL SPECIFICATIONS

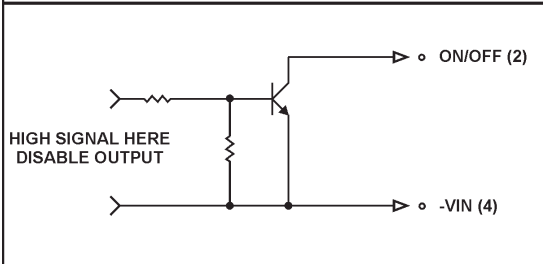
Case "M"



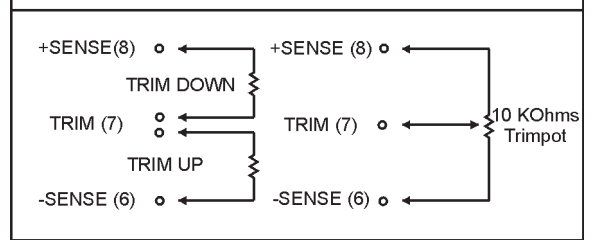
All Dimensions in Inches (mm).
 Tolerance: x.xx=±0.02, x.xxx=±0.010 Inches
 (x.x=±0.5, x.xx=±0.250 mm)

PIN CONNECTIONS	
1	+INPUT
2	REMOTE CONTROL
3	CASE
4	-INPUT
5	-OUTPUT
6	-SENSE
7	TRIM
8	+SENSE
9	+VOUT

Remote On/Off Control

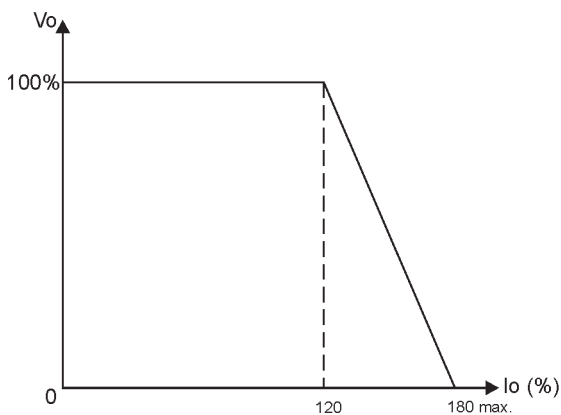


External Output Trimming

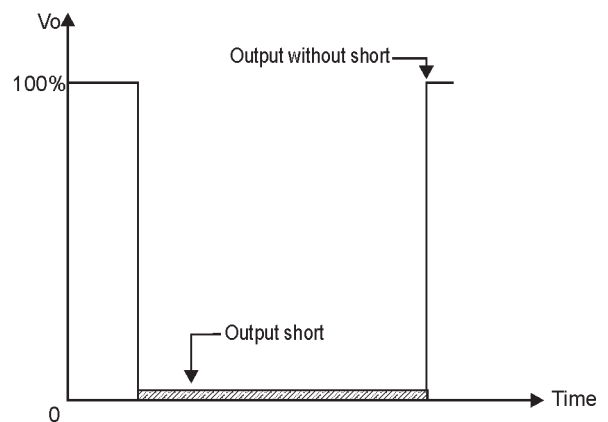


APPLICATION NOTE

Current Limit Curve



Output Short, Vo Characteristics



NOTICE:
 The information in this document has been carefully checked. However, no responsibility is assumed for inaccuracies!
 Specifications can be changed without notice. The latest and most complete information can be found on our website.