

75 Watt

1.45x2.28 Inch Package Q 4:1 Input Range



- o Efficiency up to 87%
- o 300 kHz Switching Frequency
- o Wide Input Range
- o Regulated Single Output
- o Continuous Short Circuit Protection
- o Industrial Standard Quarter-Brick Package



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF
				NO LOAD	FULL LOAD	
75QRS24X3.3LC	9-36 VDC	3.3 VDC	12 A	50 mA	2037 mA	81
75QRS24X5LC		5 VDC			2976 mA	84
75QRS24X12LC		12 VDC	6.25 A		3634 mA	86
75QRS24X15LC		15 VDC	5 A		3634 mA	
75QRS24X24LC		24 VDC	3.12 A		3628 mA	
75QRS48X3.3LC	18-75 VDC	3.3 VDC	12 A	30 mA	1006 mA	82
75QRS48X5LC		5 VDC			1471 mA	85
75QRS48X12LC		12 VDC	6.25 A		1817 mA	86
75QRS48X15LC		15 VDC	5 A		1796 mA	87
75QRS48X24LC		24 VDC	3.12 A		1796 mA	

SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range		4:1
Undervoltage lockout	24 Vin power up	8.8 V
	24 Vin Power down	8 V
	48 Vin power up	17 V
	48 Vin power down	16 V
Positiv Logic Remote ON/OFF ³⁾	Logic Compatibility Module ON Module OFF	Open Collector ref. to -Input >3.5 VDC to 75 VDC or Open Circuit <1.8 VDC
Input Filter		Pi Type

OUTPUT SPECIFICATIONS

Voltage Accuracy		±1.5% max.
Transient Response 75%-100% Step Load Change	Error Band Recover Time	±5% Vout <500 µsec.
External Trim Adj. Range		±10%
Ripple and Noise at 20 MHz BW	3.3 V, 5 V	40 mV RMS max. 100 mV p-p max.
	12V, 15 V	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, % Vo Nom.		115-140%
Current Limit		110% ~ 140% Nominal Output

NOTE:

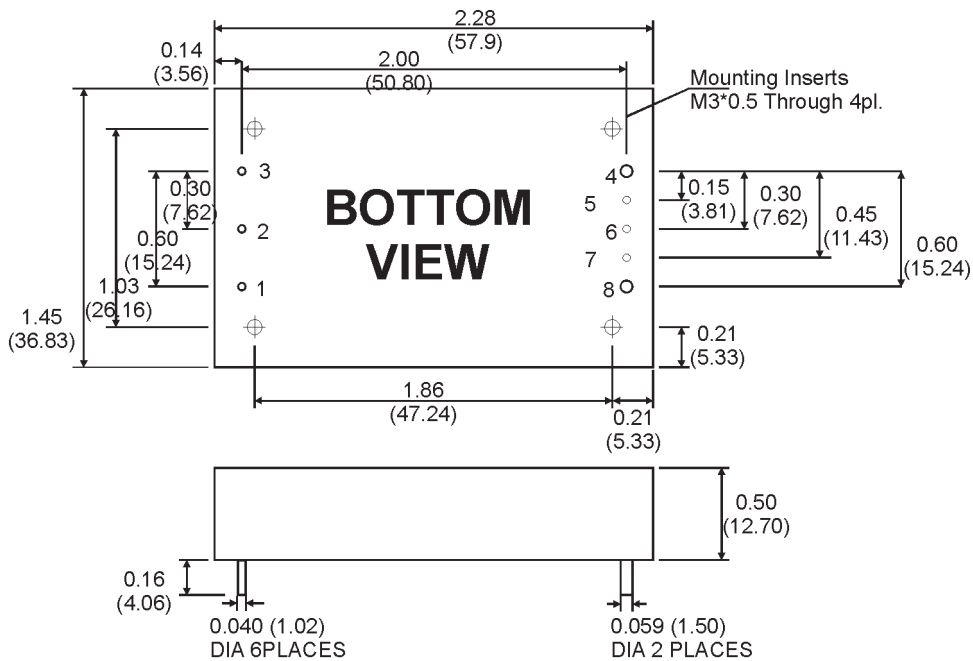
1. Measured from High Line to Low Line.
2. Measured from Full Load to Zero Load.
3. Output Ripple and Noise measured with 10 µF Ceramic capacitor across output.
4. Add Suffix "R" to the Model Number with Negative Logic Remote ON/OFF.
Module ON.....<1.8 VDC
Module OFF.....>3.5 VDC to 75 VDC or Open Circuit

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
Operating Case Temperature Range		-40°C to +100°C
Storage Temperature Range		-55°C to +105°C
Thermal Shutdown, Case Temp.		+105°C
Dimensions		1.45x2.28x0.50 Inches (36.8x57.9x12.7 mm)
Case Material		Aluminum Baseplate with Plastic Case

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MECHANICAL SPECIFICATIONS**Case „Q"**

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

All Dimensions in Inches (mm).
 Tolerance .xx=±0.02, .xxx=±0.010 Inches
 (.x=±0.5, .xx=±0.25 mm)

DIAGRAMS