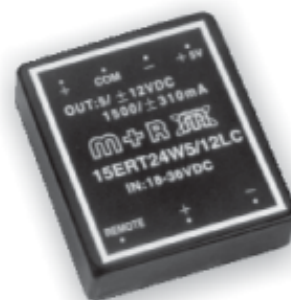


15 Watt**2.56x3 Inch Package E**
2:1 Input Range

- o Wide Input Range
- o Pi Input Filter
- o Efficiency up to 84%
- o Single, Dual & Triple Output
- o Remote On/Off Control



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF	
				NO LOAD	FULL LOAD		
15ERS12W5LC	9-18 VDC	5 VDC	3000 mA	20 mA	1700 mA	77	
15ERS12W12LC		12 VDC	1250 mA		1600 mA	78	
15ERS12W15LC		15 VDC	1000 mA				
15ERD12W12LC		±12 VDC	±625 mA	35 mA	1520 mA	82	
15ERD12W15LC		±15 VDC	±500 mA				
15ERT12W5/12LC		5/±12 VDC	+1500/±310 mA	30 mA	1600 mA	78	
15ERT12W5/15LC		5/±15 VDC	+1500/±250 mA		1470 mA		
15ERT12W12/5LC		+5/+12/-5 VDC	+1500/+310/-500 mA				
15ERS24W5LC	18-36 VDC	5 VDC	3000 mA	25 mA	810 mA	77	
15ERS24W12LC		12 VDC	1250 mA		780 mA	80	
15ERS24W15LC		15 VDC	1000 mA		750 mA	84	
15ERD24W12LC		±12 VDC	±625 mA				
15ERD24W15LC		±15 VDC	±500 mA		780 mA	80	
15ERT24W5/12LC		5/±12 VDC	+1500/±310 mA				
15ERT24W5/15LC		5/±15 VDC	+1500/±250 mA				
15ERT24W12/5LC		+5/+12/-5 VDC	+1500/+310/-500 mA		715 mA		
15ERS48W5LC	36-72 VDC	5 VDC	3000 mA	10 mA	410 mA	77	
15ERS48W12LC		12 VDC	1250 mA		390 mA	80	
15ERS48W15LC		15 VDC	1000 mA				
15ERD48W12LC		±12 VDC	±625 mA	15 mA	380 mA	82	
15ERD48W15LC		±15 VDC	±500 mA				
15ERT48W5/12LC		5/±12 VDC	+1500/±310 mA				
15ERT48W5/15LC		5/±15 VDC	+1500/±250 mA		350 mA		
15ERT48W12/5LC		+5/+12/-5 VDC	+1500/+310/-500 mA				

SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range	2:1
Input Filter	Pi Type

OUTPUT SPECIFICATIONS

Voltage Accuracy	Single & Dual +Output	±1% max.
	Dual -Output	±3% max.
	Triple 5V Output	±2% max.
	Triple 12V/15V Output	±3% max.
Voltage Balance, Dual Output at Full Load		±1% max.
Transient Response Single, 25% Step Load Change Dual, Full Load to Half Load ±1% Error Band		<500 μsec.
External Trim Adj. Range		±10%
Ripple and Noise, 20MHz BW		10 mV RMS max. 75 mV p-p max.
Temperature Coefficient		±0.02%/°C max.
Short Circuit Protection		Continuous
Line Regulation ¹⁾	Single & Dual Output	±0.2% max.
	Triple Output	±1.0% max.
Load Regulation ²⁾	Single & Dual Output	±1.0% max.
	Triple Output	±5.0% max.

1. Line Regulation measured from High Line to Low Line.

2. Load Regulation measured from Full Load to 1/4 Load.

GENERAL SPECIFICATION

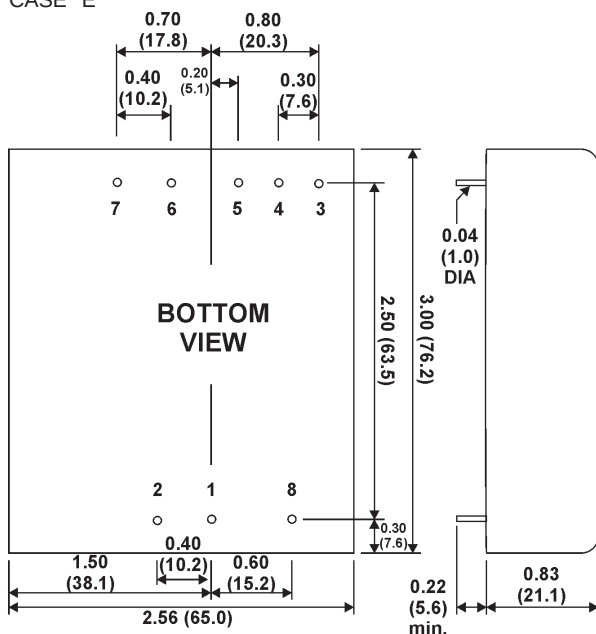
Efficiency	see table
Isolation Voltage	500 VDC min.
Isolation Resistance	1000 Mohms
Switching Frequency	200 kHz
Operating Temperature Range	-25°C to +71°C
Case Temperature	+100°C max.
Storage Temperature Range	-55°C to +105°C
Cooling	Free Air Convection
Derating >+71°C	-3.5%/°C
EMI/RFI	Six-Sided Continuous Shield
Dimensions	2.56 x 3.0 x 0.83 Inches (65 x 76.2 x 21.1 mm)
Case Material	Black Coated Copper with Non-Conductive Base
MTBF (MIL-HDBK-217F)	min. 606.000 hrs

SPECIFICATIONS

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

MECHANICAL SPECIFICATIONS

CASE "E"



All Dimensions in Inches (mm).
Tolerance x.xx = ± 0.04 , x.xxx = ± 0.010

PIN CONNECTIONS

PIN	SINGLE	DUAL	TRIPLE
1	+INPUT	+INPUT	+INPUT
2	-INPUT	-INPUT	-INPUT
3	NO PIN	+OUTPUT	+OUTPUT
4	OUTPUT TRIM	COMMON	COMMON
5	NO PIN	-OUTPUT	-OUTPUT
6	+OUTPUT	NO PIN	+5V OUTPUT
7	-OUTPUT	NO PIN	NO PIN
8	REMOTE ON/OFF CONTROL		

APPLICATION NOTES & DIAGRAMS**REMOTE ON/OFF CONTROL**

Logic Compatibility	CMOS or Open Collector TTL
Ec-ON	>+5.5VDC or Open Circuit
Ec-OFF	<1.8VDC
Shutdown Idle Current	10mA
Control Common	Referenced to Input Minus

OVER VOLTAGE PROTECTION

OUTPUT VOLTAGE	O.V.P.
5VDC	6.8V
12VDC	15V
15VDC	18V

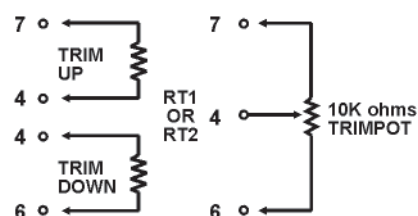
TRIPLE OUTPUT LOADING ¹⁾

OUTPUT (PIN NO.)	VOLTAGE	AMPERES	
		MIN. ²⁾	NOM.
6	+5 VDC	0.25 A	1.5 A
3 & 5	± 12 VDC	0.10 A	0.31 A
3 & 5	± 15 VDC	0.10 A	0.25 A
3 & 5	+12 & -5 VDC	0.10/0.10 A	0.31/0.50 A

NOTE:

1) Maximum total power from all outputs is limited to 15 watts but no output should be allowed to exceed its maximum current.

2) Minimum current on each output is required to maintain specified regulation.

External Output TrimmingOutput may optionally be externally trimmed ($\pm 10\%$) with fixed resistor or an external trimpot as shown.**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.