

# DC/DC Converters – SR-78M series

0.5A output current  
Single Output

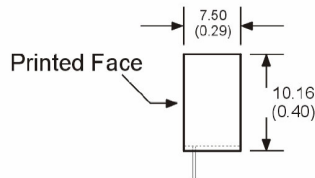
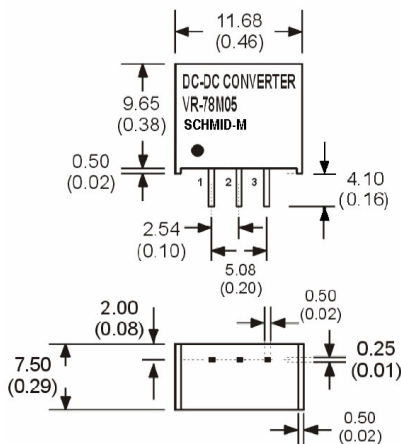
## FEATURES

- 3 Pin SIL Package
- Non isolation, No need for heatsinks
- Wide Input Range, Step-down switching dc-dc converter
- Full SMD Technology
- Continuous Short Circuit Protection
- Pin-out compatible with LM78Mxx three terminals positive Regulator
- Efficiency up to 97 %
- -40°C ~ 85°C Operation Temperature Range

Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)
SR-78M1R5	4.75-30	1.5	500	78
SR-78M1R8	4.75-34	1.8	500	82
SR-78M2R5	4.75-34	2.5	500	87
SR-78M3R3	4.75-34	3.3	500	91
SR-78M05	6.5-34	5.0	500	94
SR-78M6R5	8.0-34	6.5	500	95
SR-78M7R2	9.0-34	7.2	500	95
SR-78M09	11-34	9.0	500	96
SR-78M12	15-34	12	500	97
SR-78M15	18-34	15	500	97

<b>Input specifications:</b>	
Input Reflected Ripple Current Filter:	35mA pk-pk Capacitors
<b>Output specifications:</b>	
Voltage accuracy	±2%
Ripple & noise (at 20MHz BW)	60mV pk-pk
Short Circuit Protection	Indefinite
Line voltage regulation	±0.5%
Load voltage regulation	±0.8%, load=10~100%
Temperature coefficient	±0.02%/°C
<b>General Specifications:</b>	
Efficiency	78% ~ 97%
Switching Frequency	330 kHz, Typ.
<b>Enviromental specifications:</b>	
Operating Temperature	-40°C ~ +85°C
Case temperature	100°C Max.
Storage Temperature	-40°C ~ +125°C
Humidity	95% rel H
Cooling	Nature Convection
<b>Capacitive Load:</b>	220µF
<b>Note:</b>	
Measured Input reflected ripple current with a simulated source inductance of 12µH.	

## MECHANICAL DIMENSIONS & PIN CONNECTIONS



PIN #	Single
1	+V Input
2	GND
3	+V Output

Notes : All dimensions are typical in millimeters ( inches ).

1. Pin diameter: 0.5±0.05 ( 0.02±0.002 )
2. Pin pitch tolerance: ±0.35 ( ±0.014 )
3. Case Tolerance: ±0.5 ( ±0.02 )