



**FEATURES:**

- RoHS Compliant
- 3 Pin SIP Package
- Non-Isolated
- Low ripple and noise
- Operating temperature -40°C to +85
- Very high efficiency up to 97%
- Pin compatible to multiple manufacturers

**Models**  
**Single output**

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Maximum Capacitive load (µF)	Efficiency Vin Min (%)	Efficiency Vin Max (%)
AMSR-781.5Z	4.75-30	1.5	500	220	78	65
AMSR-781.8Z	4.75-34	1.8	500	220	82	70
AMSR-782.5Z	4.75-34	2.5	500	220	87	76
AMSR-783.3Z	4.75-34	3.3	500	220	91	81
AMSR-7805Z	6.5-34	5	500	220	94	85
AMSR-786.5Z	8-34	6.5	500	220	95	88
AMSR-787.2Z	9-34	7.2	500	220	95	89
AMSR-7809Z	11-34	9	500	220	96	92
AMSR-7812Z	15-34	12	500	220	97	94
AMSR-7815Z	18-34	15	500	220	97	95

**Input Specifications**

Parameters	Nominal	Typical	Maximum	Units
Voltage range		4.75-34		
Filter		Capacitor		
No load Input Current			8	mA
Input Reflected Ripple Current			35	mA p-p
Absolute Maximum		Stress rating	-0.3-34	VDC

**Output Specifications**

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy			±2	%
Short Circuit protection		Auto recovery		
Line voltage regulation			±0.5	%
Load voltage regulation	10-100% load		±0.6	%
Temperature coefficient			±0.02	%/°C
Ripple & Noise	20MHz Bandwidth		60	mV p-p

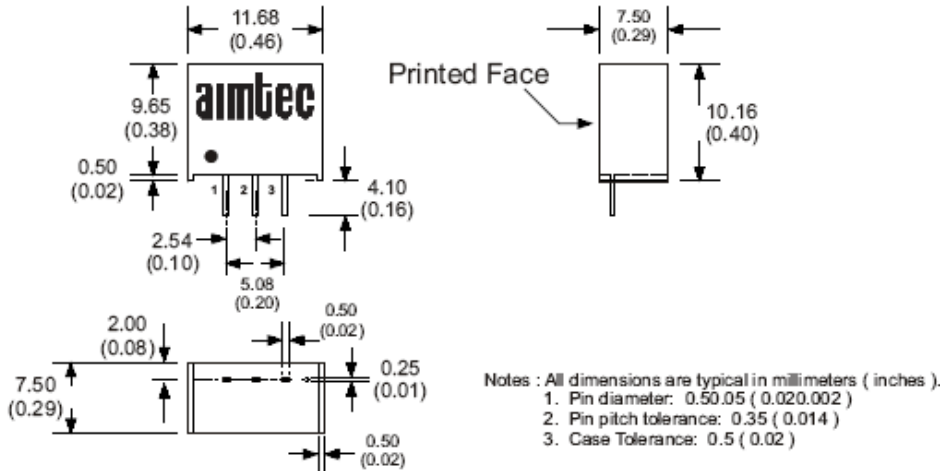
**General Specifications**

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	330		KHz
Operating temperature	Without derating	-40 to +85		°C
Storage temperature		-40 to +125		°C
Case temperature			100	°C
Cooling	Free air convection			
Humidity			95	%
Case material	Non-conductive black plastic (UL94V-0 rated)			
Weight		1.8		g
Dimensions (L x H x W)		0.46 x 0.38 x 0.29 inches	11.68 x 9.65 x 7.50 mm	
MTBF	> 1 121 000 hrs (MIL-HDBK-217F, Ground Benign, t=+25°C)			

## Pin Out Specifications

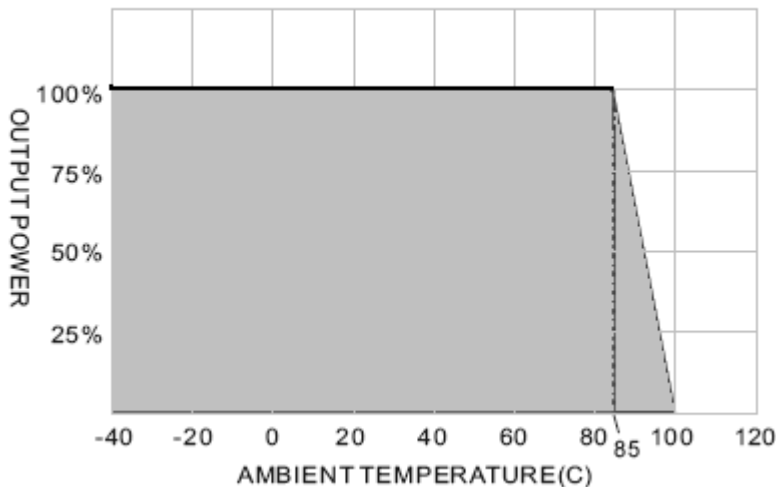
Pin	Single
1	+V Input
2	Ground
3	+V Output

## Dimensions



## Derating

Derating Curve



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