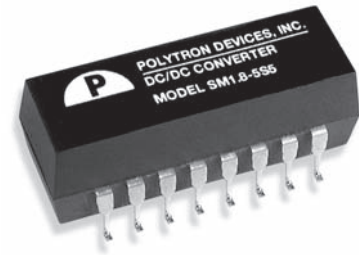




1.8 WATT SINGLE OUTPUT

Isolated, Low Profile
DC/DC Converters



FEATURES

- **Transfer Molded Type**
- **16-Pin SMD Package**
- **500 Vdc Input/Output Isolation**
- **Low Profile**
- **Compact Size**

SM1.8 Series

Specifications

All specifications are typical at nominal input, full load, and 25°C , unless otherwise noted.

INPUT

Voltage Range.....±5%, See Table
Input Filter.....Internal Capacitor

OUTPUT

Voltage Accuracy.....±5% max.
Line Regulation (at FL).....±5% max.
Load Regulation (FL to 1/4 Load).....±5% max.
Ripple Noise (20MHz Bw).....1% P-P max.
Temperature Coefficient (at FL).....0.5%/°C max.
Short Circuit Protection.....Momentary

GENERAL

Efficiency (at FL).....75% Typical
Isolation Voltage.....500 Vdc
Isolation Resistance.....1000MOhms
Switching Frequency.....25KHz typ.

ENVIRONMENTAL

Operating Temperature Range.....-25° to +71°C
Storage Temperature Range.....-40° to +105°C
Derating.....None
Cooling.....Free Air Convection
Relative Humidity.....Up to 95% RH

PHYSICAL

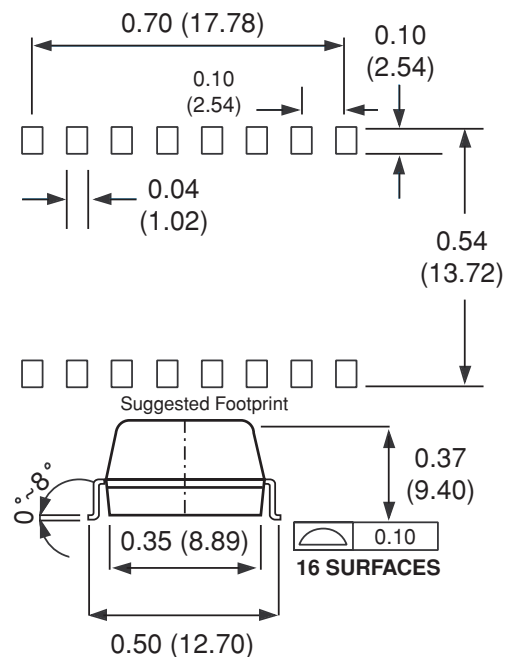
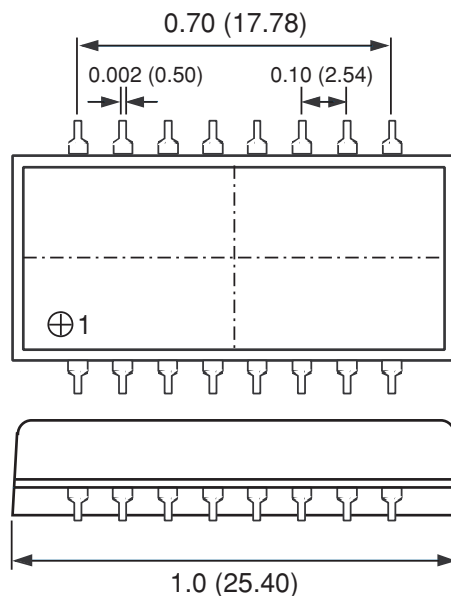
Case Material.....Non-Conductive Black Plastic
Weight.....14 grams typical
Dimensions.....1.00" x 0.54" x 0.37"
.....(26.4 x 13.72 x 9.40 mm)

Selection Guide

SINGLE OUTPUT VOLTAGE	Input Voltage Nominal (Vdc)	Output Voltage (Vdc)	Output Current (mA, Max)	Input Current (mA)		Efficiency %	Model Number	Package	
	5	5	360	30	515	70	SM1.8-5S5	16 pin SMD	
		9	200	30	480	75	SM1.8-5S9	16 pin SMD	
		12	150	30	480	75	SM1.8-5S12	16 pin SMD	
		15	120	30	480	75	SM1.8-5S15	16 pin SMD	
	12	5	360	20	214	70	SM1.8-12S5	16 pin SMD	
		9	200	20	200	75	SM1.8-12S9	16 pin SMD	
		12	150	20	200	75	SM1.8-12S12	16 pin SMD	
		15	120	20	200	75	SM1.8-12S15	16 pin SMD	

Mechanical Specifications

I/O Connections	
PIN #	FUNCTION
1	-Vin
3	+Vin
7	+Vout
8	-Vout



All Dimensions are in inches (mm)