

Input

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Input Voltage Range	4.5		12	VDC	5 V nominal
	9.0		36		24 V nominal
	18.0		75		48 V nominal
Input Filter	Internal Pi type filter				
Input Surge			15	VDC for 1 s	5 V nominal
			50		24 V models
			100		48 V models
Remote On/Off	ON: open circuit OFF: 2-4mA via 1kΩ resistor into pin 2 with respect to pin 1				

Output

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Output Voltage	5		30	VDC	See Models and Ratings table
Initial Set Accuracy			±1.0	%	
Output Voltage Balance			±2.0	%	For dual output with balanced loads
Minimum Load					No minimum load required
Line Regulation			±0.5	%	
Load Regulation			±1.0	%	
Cross Regulation			±5.0	%	On dual output models when one load is varied between 25% and 100% and other is fixed at 100%
Transient Response		3	5	% deviation	Recovery within 1% in less than 250 μs for a 25% load change.
Ripple & Noise			50	mV pk-pk	20 MHz bandwidth. Measured using 0.47 μF ceramic capacitor.
Short Circuit Protection					Continuous, with auto recovery
Maximum Capacitive Load					See Models and Ratings table
Temperature Coefficient			0.02	%/°C	

General

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Efficiency		82		%	See Models and Ratings table
Isolation: Input to Output	1500/1800			VDC	60 s/1 s
Isolation Resistance	10 ⁹			Ω	At 500 VDC
Isolation Capacitance		500		pF	
Switching Frequency		100		kHz	
Power Density			17.5	W/in ³	
Mean Time Between Failure		5		MHrs	MIL-HDBK-217F, +25 °C GB
Weight		0.01 (4.5)		lb (g)	
Moisture Sensitivity Level	Level 2				IPC/JEDEC J-STD-020D.1

Environmental

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Operating Temperature	-40		+95	°C	See Derating Curve.
Storage Temperature	-55		+125	°C	
Case Temperature			+95	°C	
Humidity			95	%RH	Non-condensing
Cooling					Natural convection
Case Flammability	UL 94V-0 Rated				Non conductive black plastic
Lead-Free Reflow Solder Process					IPC/JEDEC J-STD-020D.1

Safety Approvals

Safety Agency	Safety Standard	Notes & Conditions
CE	LVD	Evaluated to EN62368-1
UL	UL/cUL62368-1	ITE
CE	Meets all applicable directives	
UKCA	Meets all applicable legislation	

EMC: Emissions

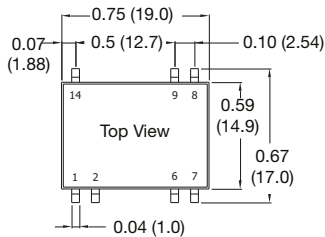
Phenomenon	Standard	Test Level	Notes & Conditions
Conducted	EN55032	Class A	

EMC: Immunity

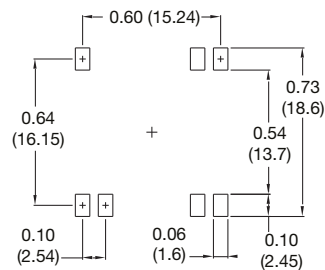
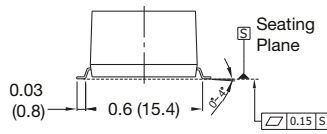
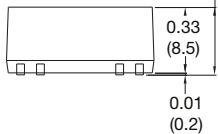
Phenomenon	Standard	Test Level	Criteria	Notes & Conditions
ESD	EN61000-4-2	±8 kV air discharge, ±6 kV contact	A	
Radiated	EN61000-4-3	10 V/m	A	
EFT/Burst	EN61000-4-4	±2 kV	A	With external input capacitor, suggested part is CHEMI-CON KY 220µF/100V
Surge	EN61000-4-5	±1 kV	A	With external input capacitor, suggested part is CHEMI-CON KY 220µF/100V
Conducted	EN61000-4-6	10 V rms	A	

Mechanical Details

Connecting Pin Pattern



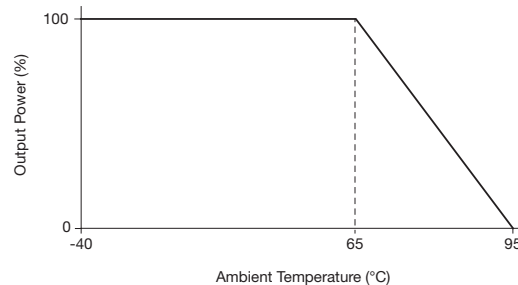
0.34 (8.7)



Pin Connections		
Pin	Single	Dual
1	-Vin	-Vin
2	Remote On/Off	Remote On/Off
6	No Connection	Common
7	No Connection	-Vout
8	+Vout	+Vout
9	-Vout	Common
14	+Vin	+Vin

Application Notes

Derating Curve



Notes

1. All dimensions are in inches (mm)
2. Weight: 0.01 lbs (4.5 g) approx.

3. Tolerance: X.XX±0.01 (X.X±0.25)
X.XXX±0.005 (X.XX±0.13)
4. Pin Tolerance: ±0.002 (±0.05)