



## 10WATT ICI68D10 WIDE INPUT SERIES

### FEATURES:

- 10W DIL Package**
- 2:1 Wide Input Range
- 100% Burned In
- High Efficiency
- UL 94V-0 Package Material
- Custom Solutions available
- 3 years warranty

**ROHS Compliant**

Specifications typical at TA=25C, nominal input voltage and rated output current unless otherwise specified.

Part Number ICI68D10 Series	Input Voltage	Output Voltage	Output Current	Input current		Efficiency
	Vdc	Vdc	mA	No Load	Full Load	%
ICI68D10-12S03RNL	9-18	3.3	3000	60	1006	82
ICI68D10-12S05RNL	9-18	5	2000	60	1016	82
ICI68D10-12S12RNL	9-18	12	833	60	1004	83
ICI68D10-12S15RNL	9-18	15	670	60	1009	83
ICI68D10-12D05RNL	9-18	+/-5	+/-1000	60	1004	83
ICI68D10-12D12RNL	9-18	+/-12	+/-420	60	1012	83
ICI68D10-12D15RNL	9-18	+/-15	+/-340	60	1024	83
ICI68D10-24S03RNL	18-36	3.3	3000	50	503	82
ICI68D10-24S05RNL	18-36	5	2000	50	502	82
ICI68D10-24S12RNL	18-36	12	833	50	502	83
ICI68D10-24S15RNL	18-36	15	670	50	504	83
ICI68D10-24D05RNL	18-36	+/-5	+/-1000	50	502	83
ICI68D10-24D12RNL	18-36	+/-12	+/-420	50	506	83
ICI68D10-24D15RNL	18-36	+/-15	+/-340	50	512	83
ICI68D10-48S03RNL	36-75	3.3	3000	40	251	82
ICI68D10-48S05RNL	36-75	5	2000	40	254	82
ICI68D10-48S12RNL	36-75	12	833	40	251	83
ICI68D10-48S15RNL	36-75	15	670	40	252	83
ICI68D10-48D05RNL	36-75	+/-5	+/-1000	40	254	83
ICI68D10-48D12RNL	36-75	+/-12	+/-420	40	253	83
ICI68D10-48D15RNL	36-75	+/-15	+/-340	40	256	83



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Output Specifications	
Voltage Setpoint Accuracy	+/-2% Max
Temperature Coefficient	+/-0.05%/C
Ripple & Noise (20MHz BW)	100mVp-p max
Line Regulation (2)	+/-0.5% max
Load Regulation (3)	+/-0.5% max
Minimum Load	10% of Full Load
Short Circuit Protection	Continuous
Short Circuit Restart	Automatic
Over Load Protection	150% Typ.
Transient Response (4)	350uS max

All Specifications typical at nominal line, full load, and 25C unless otherwise noted.

(1) measured with 1uF ceramic capacitor connect to the output pins.

(2)High line to Low line

(3)Load Regulation is for output load current change from 25% to 100%

(4)Load Regulation is for output load current change from 25% to 100%

Input Specifications	
Input Voltage Range	2:1 Input Range
Input Filter	Pi Network
Protection	Fuse Recommended
General Specifications	
Efficiency	80% min
Isolation Voltage (1)	1500VDC
Isolation Resistance	10n min
Switching Frequency	400KHz typ
MTBF (2)	>900000 Hrs.
Weight	17.5g Typ
Case Material	Five-side shielded case
Case Size	31.8mm 20.3mm
Potting Material	Epoxy (UL94-V0)
ENVIRONMENTAL	
Operating Temperature	-40C to +75C
Storage Temperature	-55C to +125C
Case Temperature	+95C max
Humidity	95% max
Cooling	Free Air Convection



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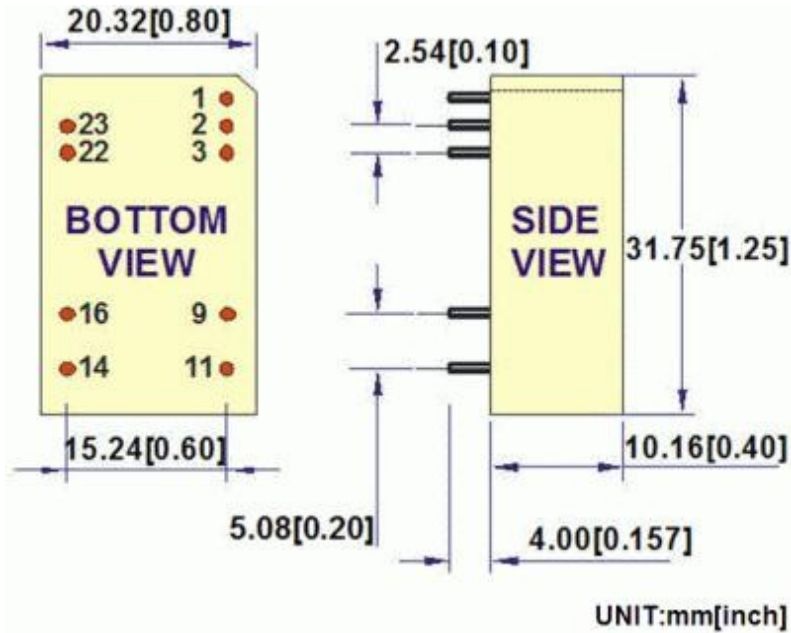
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### MARKINGS AND DIMENSIONS



### PIN Connection

PIN	SINGLE	DUAL
1	Remote On/Off	Remote On/Off
2	-Vin	-Vin
3	-Vin	-Vin
9	NC	Common
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	Common
22	+Vin	+Vin
23	+Vin	+Vin

### EXTERNAL CAPACITANCE REQUIREMENTS:

To meet the reflected ripple requirements of the converter, an input impedance of less than 0.5 ohm from DC to 100KHz is required. External output capacitance is not required for operation, however, it is recommended that 10uF tantalum and 0.1uF ceramic capacitance be selected for reduced system noise.

Additional output capacitance may be added for increased filtering, but should not exceed 100uF.