

Wide Input Voltage Range 10 Watt Dc-Dc Converter



FEATURES:

- 10W DIL PACKAGE
- 4:1 WIDE INPUT RANGE
- 100% BURNED IN
- HIGH EFFICIENCY
- UL94V-0 PACKAGE MATERIAL
- CUSTOM SOLUTIONS AVAILABLE
- RoHS COMPLIANT
- 3 YEARS WARRANTY
- Remote Control:On/Off



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

Part Number	Input Voltage	Input Current		Output Voltage	Output Current	Efficiency
	Vdc	No-Load (mA TYP)	Full Load (mA TYP)	Vdc	Full Load (mA)	%TYP
ICI68DW10-24S03RNL	9-36	30	503	3.3	3000	82
ICI68DW10-24S05RNL	9-36	30	508	5	2000	82
ICI68DW10-24S12RNL	9-36	30	502	12	833	83
ICI68DW10-24S15RNL	9-36	30	505	15	670	83
ICI68DW10-24D05RNL	9-36	30	502	±5	±1000	83
ICI68DW10-24D12RNL	9-36	30	506	±12	±420	83
ICI68DW10-24D15RNL	9-36	30	512	±15	±340	83
ICI68DW10-48S03RNL	18-75	30	252	3.3	3000	82
ICI68DW10-48S05RNL	18-75	30	254	5	2000	82
ICI68DW10-48S12RNL	18-75	30	251	12	833	83
ICI68DW10-48S15RNL	18-75	30	252	15	670	83
ICI68DW10-48D05RNL	18-75	30	251	±5	±1000	83
ICI68DW10-48D12RNL	18-75	30	253	±12	±420	83
ICI68DW10-48D15RNL	18-75	30	256	±15	±340	83

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Types				4:1	
Filter	Pi Network				
Protection	Fuse Recommended				

Output Specifications (Temperature Coefficient : ±0.05%/°C)

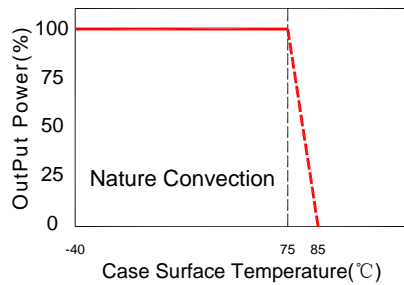
Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	Single/Dual			±2	%
Short Circuit/ Restart	Continuous/ Automatic				
Over Load Protection			150		%
Line Regulation	High Line to Low Line			±0.5	%
Load Regulation	Single & Dual (F.L-25%F.L)			±0.5	%
Minimum Load	10% of Full Load				
Ripple & Noise	BW=DC To 20MHz (with 1uF Cap.)			100	mVp-p
Transient response setting time	current change from 25% to 100%			350	us

General Specifications

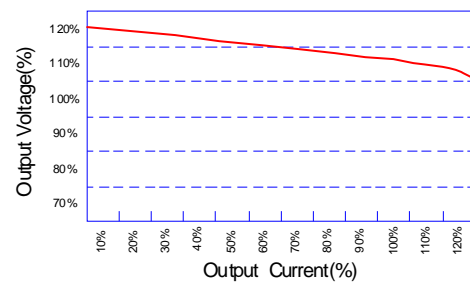
Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching Frequency			400		KHz
Operating Temperature		-40		85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	Five-Side Shielded Case				
Weight			17.5		g
Dimensions	Appearance size		31.8X20.6X10.16		mm
Potting Material			Epoxy (UL94V-0 rated)		
Radiated Emissions	EN55022		CLASS A		
Conducted Emissions	EN55022		CLASS A		
Efficiency		80			%
Isolation Voltage	For 10 seconds			1500	VDC
MTBF	MIL-HDBK-217F @25°C , Ground Benign	900000			Hours
Storage Temperature		-55		+125	°C
Case Temperature				+95	°C

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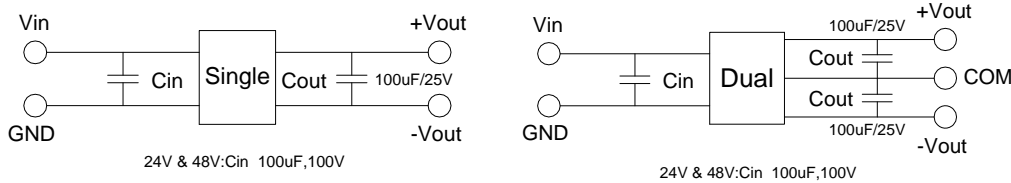
Temperature Derating Graph



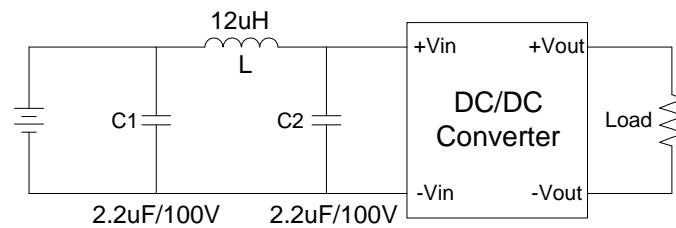
Tolerance Envelope Graph



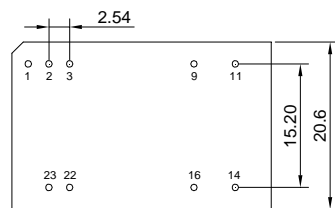
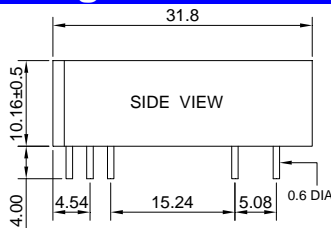
Recommended Test Circuit



Input filter components (C1, C2, L) are used to help meet conducted emissions (EN55022 class A) requirement for the module. These components should be mounted as close as possible to the module; and all leads should be minimized to decrease radiated noise.

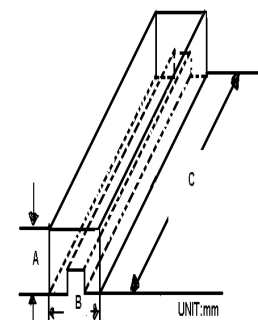


Markings and dimensions



UNIT:mm XX.X±0.5 XX.XX±0.25
Pin Size Tolerance: 0.6Φ ±0.05mm

Packaging



SIZE(mm)		
A	B	C
18.71	23.00	522

PIN Connection

PIN	1	2.3	9	11	14	16	22.23
SINGLE	Remote On/Off	-Vin	NC	NC	+Vout	-Vout	+Vin
DUAL	Remote On/Off	-Vin	Common	-Vout	+Vout	Common	+Vin