

# Avionics Grade DC – DC Converter

AJN-12V-R5

Section	Parameters	Specifications
Output	Voltage	12.1V +/- 0.2
	Power	30W
	Current	2.5A
	Ripple	<5 Milli volts
	Short-term power interruption	<15 Milli seconds
	Abnormal power interruption	15 ms, < T, <=5.3s
	Power Off	5.3s <= T
	Spikes	150ns < T, 10us, +/-600Vp
	Bonding resistance (X1 to housing)	< 0.5m Ohms
	Bonding resistance (X2 to housing)	< 15m Ohms
	Bonding resistance (X1 to X2)	< 15m Ohms
	Insulation resistance between input and output	50 M Ohms
Input	Voltage	16-32V
	Power_Off_pin (At X1)	1V will disable output open and 4V
	Warm start (Time delay < 5.3 seconds)	750 +/- 250 ms, time difference between PWR_FAIL and WARM_ST
	Warm start (Time delay > 5.3 seconds)	< 20 ms, time difference between PWR_FAIL & WARM_ST
	Power failure indication pin (At X2)	Provided
	Efficiency (Typ.)	>= 80%
Protection	Reverse voltage protection	Provided
	Output protection	
	Input Over/under voltage	
	Short circuit protection	Provided
Environment	Operating Temperature	-40° to +71°C
	Storage Temperature	-40° to +85°C
	Humidity	95%
	Altitude	1000m
	Type of cooling	Natural
Physical Parameters	Approximate LxWxH	131x82x25mm
	Approximate Weight	350g

Note: The technical data present in this document is for information purpose only and is subject to change without prior notice. Should you require more information, please reach us at [info@zepcotek.com](mailto:info@zepcotek.com)