

Avionics Grade DC – DC Converter AJN – 12V-2R5

Section	Parameters	Specifications	Units
Output	Voltage	12.1 +/- 0.2	Volts
	Power	30	Watts
	Current	2.5	Amps
	Ripple	<5	Milli volts
	Short-term power interruption	<15	Milli seconds
	Abnormal power interruption	15 ms, < T, <=5.3s	Seconds
	Power Off	5.3 s <= T	Seconds
	Spikes	150ns < T, 10us, +/-600Vp	
	Bonding resistance (X1 to housing)	< 0.5m Ohms	Milli Ohms
	Bonding resistance (X2 to housing)	< 15m Ohms	Milli Ohms
	Bonding resistance (X1 to X2)	< 15m Ohms	
	Insulation resistance between input and output	50 M Ohms	Mega Ohms
Input	Voltage	16-32V	
	Power_Off_pin (At X1)	1V will disable output open and 4V will enable output	
	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 and 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	Protected	
Environment	Operating temperature	-40° to +71°	Centigrade
	Storage temperature	-40° to +85°	Centigrade
	Humidity	95%	
	Altitude	1000	meters
	Type of cooling	Natural	
Physical	Approximate L x W x H	131 x 82 x 25	mm
	Weight	350	Grams

Propelling up and ahead