Power Line Protector

AU001521

NEW

MIL-STD-1275, 12-36Vdc / 3.5A

DESCRIPTION

The new product AU001521 is RF Immunity newest PCB Power Line Protector, offering protection against surges and spikes that meets MIL-STD-1275 standard.
While maintaining small dimensions, this module does not require any peripheral components on the PCB and helps to save valuable space in the system.
This product is suitable for 10-36Vdc, a current up to 3.5A, can be connected directly to power supplies and has protection from overheating.
Its size and performance make it ideal for systems that require power stability, reliability and 1275 STD protection like heavy off-road vehicles or military vehicles.

ELECTRICAL SPECIFICATION

Input Working Voltage:	10V To 33V
Input Transient Voltage:	±250Vpk@70µsec@2J per MIL-STD-1275E +100V@50msec@0.5Ω per MIL-STD-1275E
Output Working Voltage:	Vo=Vin - Vdropout (10Vmin to 36Vmax)
Output Transient Working Voltage:	<36V @50msec per MIL-STD-1275E
Working Current:	5A max.
Input to Output Voltage Dropout:	0.5V@5A 100mV@0.5A
Power Dissipation:	1.5W max@5A
Transient Power Dissipation:	325W@50msec
Shut Down:	"0" Short DIS contact to RTN
DIS Input Current:	20mA
Overtemperature Protection:	Shut Down / Cold plate >100°C. Typical Hysteresis 5°C (auto recovery)
Isolation:	
Input to Chassis:	500Vdc
Output to Chassis:	500Vdc
Quiescent Current:	25mA@ Vin=28V
Reverse Voltage Protection:	0 To (-36V)
Response Time:	Ton=50msec@Vin=0V to Vin=28V

ENVIRONMENTAL SPECIFICATION

Working Temperature:	(-40)°C - (+100)°C at Baseplate
Storage Temperature:	(-55)°C - (+100)°C Ambient
Vibration:	6g RMS, 20-2000Hz@1Hr./ axes
Shock:	MIL-STD-810G 516.5 function test for ground equipment 40 g in 3 axes

www.rfimmunity.com
sales@rfimmunity.co.il
073-2331300

RF Immunity
EMI/RFI Connectors, Filter & Power Units

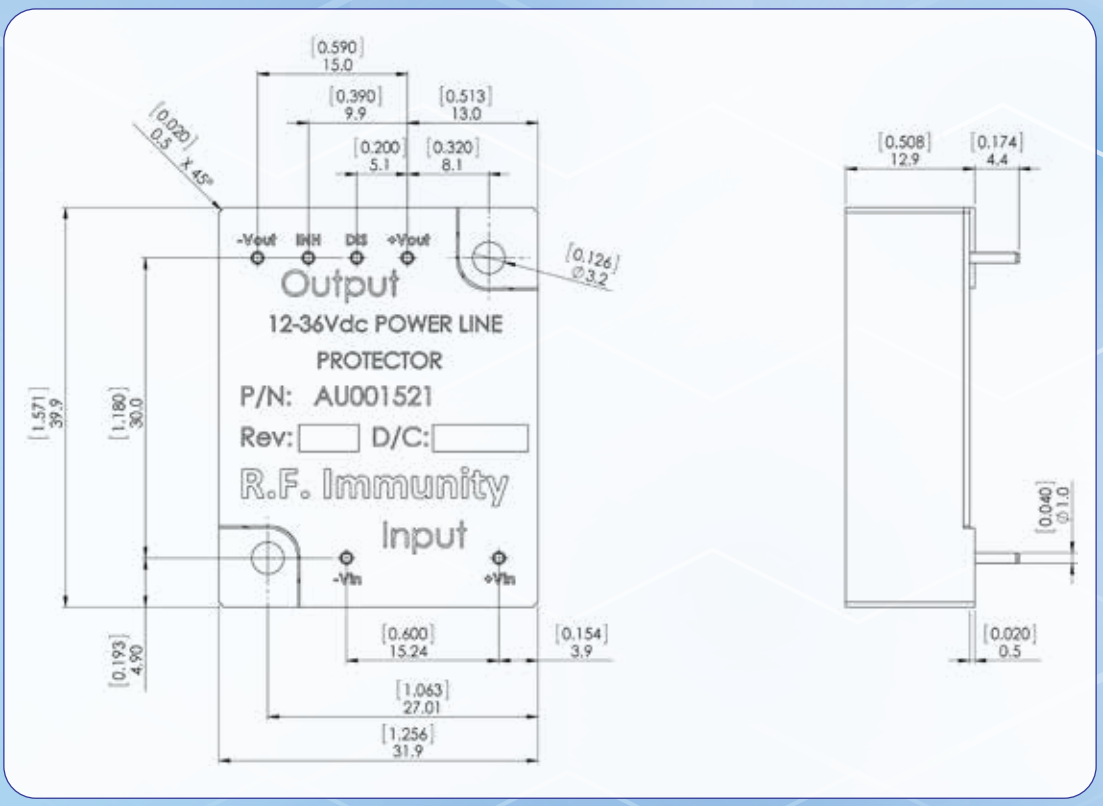
Power Line Protector

AU001521

MIL-STD-1275, 12-36Vdc / 3.5A

NEW

MECHANICAL SPECIFICATIONS



#	Function
1	-V in
2	+V in
3	-V out
4	INH
5	DIS
6	+V out

Notes

1. All dimensions in mm [inches]
2. Tolerance : ±0.2 [0.008]
3. Material :
   Case : Aluminum, Alodine Coating
   Pins : Copper Alloy, 200-300 µ" Tin Over Nickel
4. Pin diameter : 1.0mm [0.040]

www.rfimmunity.com
sales@rfimmunity.co.il
073-2331300

RF Immunity

EMI/RFI Connectors, Filter & Power Units