Micro APD Series (µAPD Series)

PCB mount, ultra compact, regulated high voltage DC/DC converter

> Input voltag	age: from 0 to 100Vdc ge 5Vdc or 12Vdc portional to input t protection m load
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Features					
The smallest regulated DC-DC power supply for APDs which require a bias voltage up to 100V					
Low ripple (<25mVpp)	Low noise due to metal shielding	Tightline/load regulation			
Miniature and lightweight	PCB mount, through holes	Dimension: 11x11X11mm			
Excellent TC: 15ppm/°C	Excellent Load stability: 20% no load/full load	Output short-circuit protected			
RoHS compliant product	Potted in an UL resin				

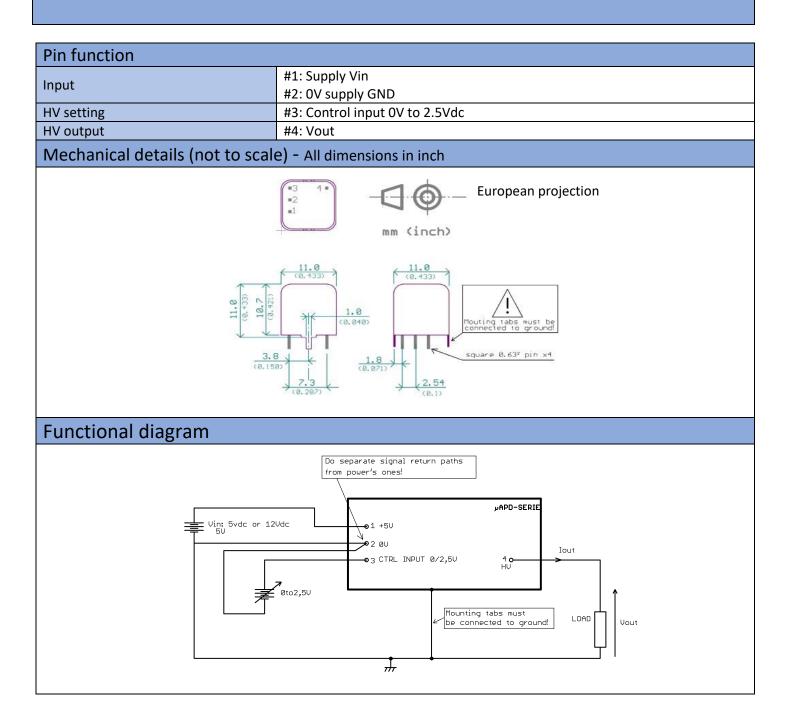
Parameters	Specifications		
Input voltage Vin (pins 1 & 2)	5Vdc ±0.5Vdc or 12Vdc (reverse: -0.2V)		
	For 0Vdc output voltage: <1.6mA		
Input current	For 100Vdc, no load: < 3mA		
	At full output voltage, full load: <50mA		
HV output Vout (pin 4)	0 to 100Vdc programmable		
Polarity	Fixed positive or negative		
HV setting (pin 3)	Via external voltage source 0/2.5Vdc ±0.1% accuracy at full scale full scall (do not exceed 2.5Vdc).		
Max. output current lout	1mA nominal		
Load voltage regulation	±0,01 % of full output voltage for no load to full load.		
Line voltage regulation	±0,01 % of full output voltage over specified input voltage range		
	<25mV peak-to-peak - ripple can be reduced to less than 5mVp-p by adding an		
Residual ripple	external 100nF/100V X7R 0805 SMD ceramic capacitor, or to less than 2mVp-p by		
	adding an external 100nF/200V polyester capacitor.		
Temperature coefficient	<15ppm/°C		
Output HV monitoring	Not available on this product		
Output reference voltage	Not available on this product		
Operating temperature	Not available on this product		
Operating temperature	-10°C to + 50°C		
Storage temperature	-10°C to + 70°C		
Safeguards	Output current internally limited		
	Soft start feature: the start is guaranteed without overshoot.		
Shielding	The case must be grounded to the customer's circuit board.		



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How to order			
Former part name	Current part name	Output polarity	Input voltage
system	system		
μ5Ρ101102	μ5P0.1-0.1	Positive	5V
μ5N101102	μ5N0.1-0.1	Negative	5V
µ12P5P101102	µ12P0.1-0.1	Positive	12V
μ12N101102	µ12N0.1-0.1	Negative	12V

