

PV Series

Single Inline Package

DC-DC Converters (1-3 Watts)

- SIP Style Footprint
- 5V, 12V, 24V, & 48V Inputs
- Single and Dual Outputs
- Adjustable Output Voltages
- Input - Output Isolation

Key Market Segments & Applications

- Telecom & Datacom
- Test and Measurement
- Point of Load

PV Features and Benefits

Features

- Single Inline Package (SIP)
- Wide Input Voltage Range
- Isolated Output
- Wide Operating Temperature Range

Benefits

- Uses Less PCB Area
- Accepts Unregulated Input Voltages
- Can Be Configured for + or - Outputs
- Supports Harsh Operating Environments

Specifications

		Output Volt.	3.3V	5V	12V
ITEMS					
DC Input ranges	VDC	5V: 4.5V-9V; 12V: 9V-18V, 24V: 18V-36V, 48V: 36V-72			
Efficiency (typical)	-	77%			
Output Voltage Accuracy	-	±5%			
Output Voltage Adjustment	VDC	3.3V-3.67V	5V-6V	12V-15V	
Preload	A	0			
Ripple & Noise	mV	100mV	120mV		
Max Line Regulation	mV	20mV			
Max Load Regulation	mV	40mV			
Overcurrent Protection	A	Auto recovery (1)			
Overvoltage Protection	%	None			
Temperature Coefficient	-	0.02%/°C			
Cooling	-	Convection cooled			
Isolation Voltage	VAC	Input-Output: 500VAC 1 min. (5mA)			
Isolation Resistance	Ohm	Greater than 100M			
Shock	-	20G			
Vibration	-	10-55Hz (sweep for 1 min.) 1.5mm constant amplitude max 9G X,Y,Z 2 hours each			
Humidity (non condensing)	-	30%-90% RH (non condensing)			
Storage Humidity	-	10%-95% RH (non condensing)			
Operating Temp. Range	-	-20 to 70°C, derate linearly to 50% load from 50 to 70°C			
Storage Temperature	°C	-30°C to +85°C			
Weight (Typ)	g	5			
Size (LxWxH)	mm	28.5x18x8.5(PV1R5); 33x18x8.5 (PV3)			
Warranty	-	2 years			

Last time buy March 2025

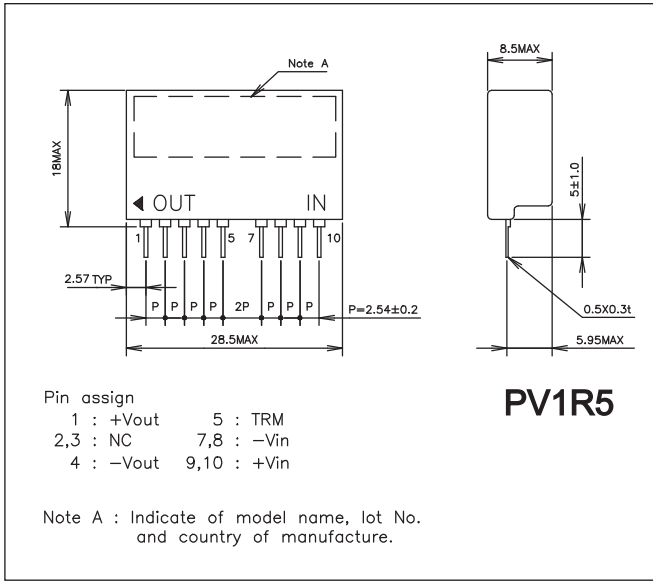
Note: See Installation Manual for full details, test methods of parameters and application notes

1) Avoid operation in short circuit or overload for more than 30 seconds

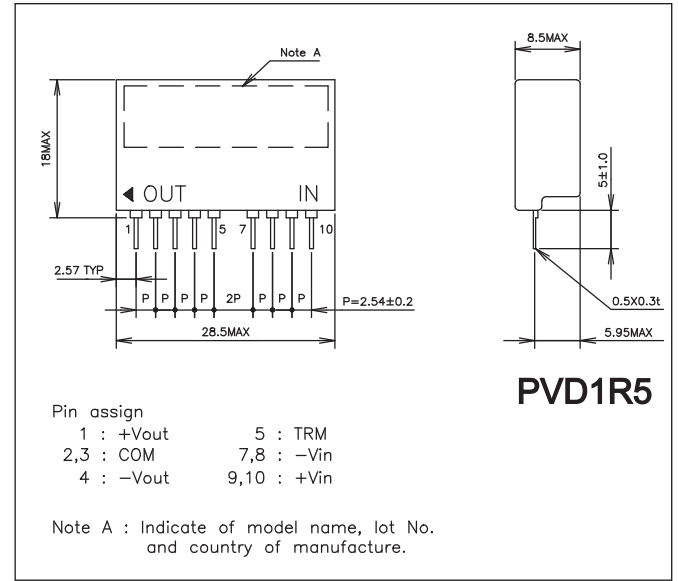
Model Selector				
Model	Output Voltage (V)	Output Current (A)	Output Power (W)	Input Voltage (V)
Single Output				
PV1R5-5-3.3	3.3	0.4	1.3	5.0
PV1R5-48-3.3	3.3	0.4	1.3	48.0
PV3-5-3.3	3.3	0.6	2.0	5.0
PV3-48-3.3	3.3	0.6	2.0	48.0
PV1R5-5-5	5.0	0.3	1.5	5.0
PV1R5-12-5	5.0	0.3	1.5	12.0
PV1R5-24-5	5.0	0.3	1.5	24.0
PV1R5-48-5	5.0	0.3	1.5	48.0
PV3-5-5	5.0	0.6	3.0	5.0
PV3-12-5	5.0	0.6	3.0	12.0
PV3-24-5	5.0	0.6	3.0	24.0
PV3-48-5	5.0	0.6	3.0	48.0
PV1R5-5-12	12.0	0.125	1.5	5.0
PV3-5-12	12.0	0.25	3.0	5.0
Dual Outputs				
PVD1R5-5-1212	±12.0	0.06	1.44	5.0
PVD1R5-12-1212	±12.0	0.06	1.44	12.0
PVD1R5-24-1212	±12.0	0.06	1.44	24.0
PVD1R5-48-1212	±12.0	0.06	1.44	48.0
PVD3-5-1212	±12.0	0.125	3.0	5.0
PVD3-12-1212	±12.0	0.125	3.0	12.0
PVD3-24-1212	±12.0	0.125	3.0	24.0
PVD3-48-1212	±12.0	0.125	3.0	48.0

PIN Assignments	
Pin Description	Function
-Vin	Negative Input Terminal
+Vin	Positive Input Terminal
+Vout	Positive Output Terminal
-Vout	Negative Output Terminal
NC	No connection
COM	Common
TRM	Trim

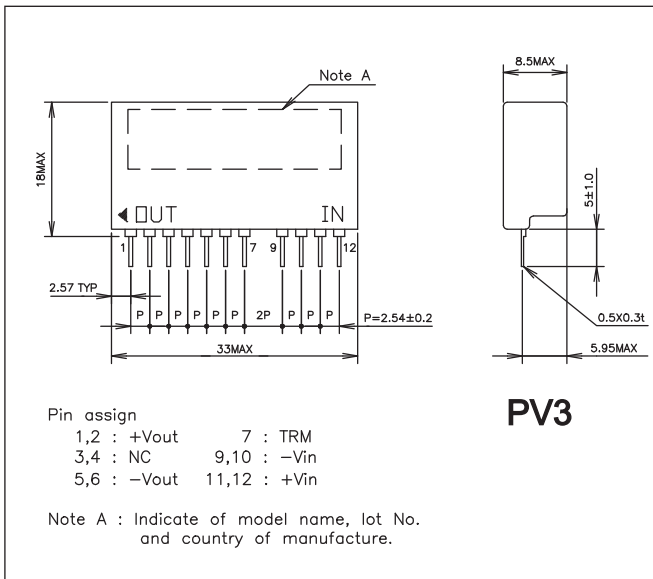
Outline Drawing PV1R5 Series



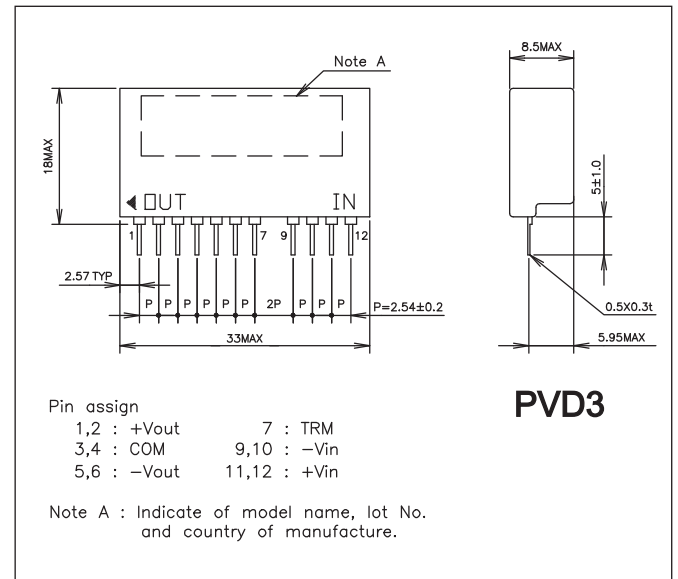
Outline Drawing PVD1R5 Series



Outline Drawing PV3 Series



Outline Drawing PVD3 Series





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