

- 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 Series

Single Inline Package
DC-DC Converters (1-3 Watts)

PV Features and Benefits

Features	Benefits
<ul style="list-style-type: none"> • Single Inline Package (SIP) • Wide Input Voltage Range • Isolated Output • Wide Operating Temperature Range 	<ul style="list-style-type: none"> • Uses Less PCB Area • Accepts Unregulated Input Voltages • Can Be Configured for + or - Outputs • Supports Harsh Operating Environments

Specifications		3.3V	5V	12V
ITEMS	Output Volt.			
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		

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

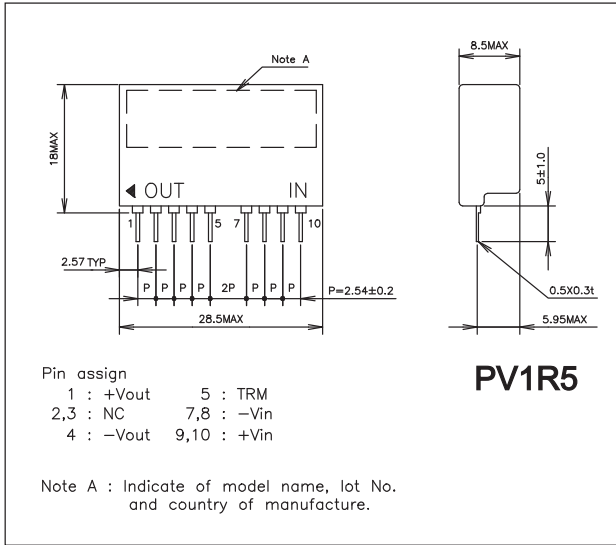


Model Selector				
Model	Output Voltage (V)	Output Current (A)	Output Power (W)	Input Voltage (V)
Single Output				
PV1R5-5-3.3	3.3	0.4	1.3	5.0
PV1R5-48-3.3	3.3	0.4	1.3	48.0
PV3-5-3.3	3.3	0.6	2.0	5.0
PV3-48-3.3	3.3	0.6	2.0	48.0
PV1R5-5-5	5.0	0.3	1.5	5.0
PV1R5-12-5	5.0	0.3	1.5	12.0
PV1R5-24-5	5.0	0.3	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

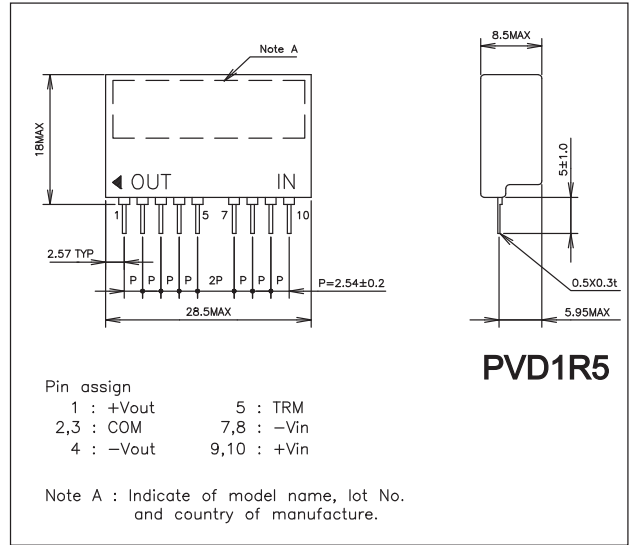
PIN Assignments	
Pin Description	Function
-Vin	Negative Input Terminal
+Vin	Positive Input Terminal
+Vout	Positive Output Terminal
-Vout	Negative Output Terminal
NC	No connection
COM	Common
TRM	Trim



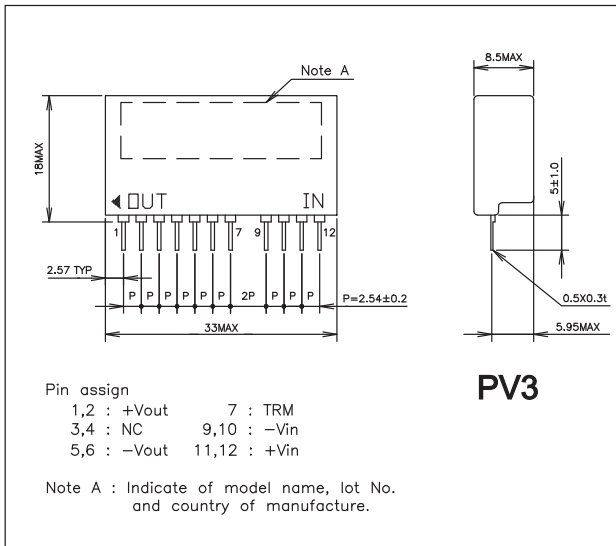
Outline Drawing PV1R5 Series



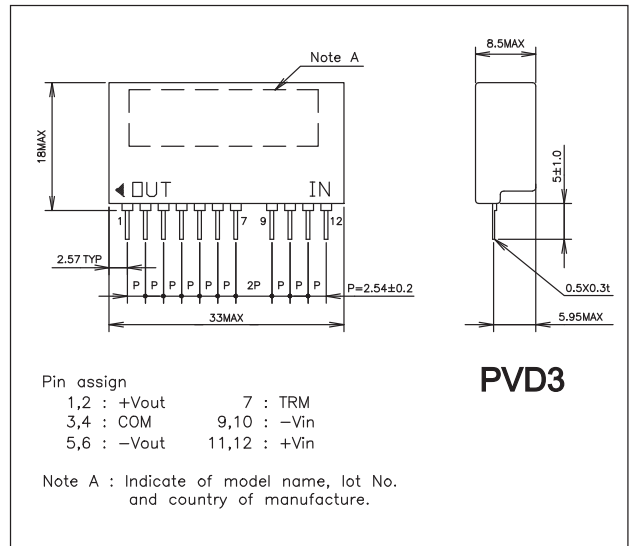
Outline Drawing PVD1R5 Series



Outline Drawing PV3 Series



Outline Drawing PVD3 Series



For full data and drawings please visit www.emea.tdk-lambda.com/www/pv



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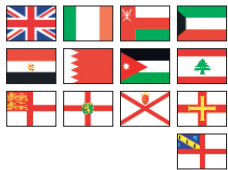
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