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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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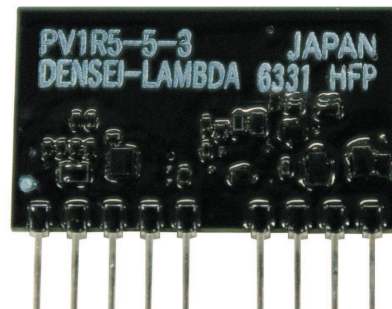
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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

Features

- ◆ SIP style footprint
- ◆ 5V, 12V, 24V, & 48V Inputs
- ◆ Single and Dual Outputs
- ◆ Adjustable Output Voltages
- ◆ Input-Output Isolation
- ◆ Overcurrent Protection



Key Market Segments & Applications



Specifications				
Model		3.3V	5V	12V
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	5g		
Size (LxWxH)	in	1.12x0.33x0.91(PV1R5); 1.29x0.33x1.29(PV3)		
Warranty	yrs	Two 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

Pinout

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

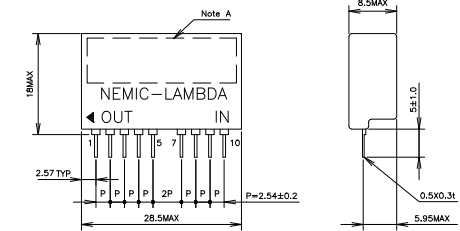
Other DC-DC Products

X	10 - 20W, 24 & 48V input DC-DC converters
SX	Surface Mount 20W, 24 & 48V input DC-DC converters
PC	1.5 - 6W, 5V, 12V, 24V & 48V input DC-DC converters

For Additional Information, please visit
us.tdk-lambda.com/lp/products/pv-series.htm



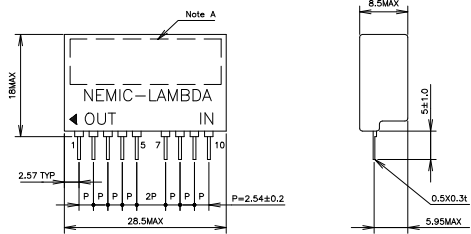
Outline Drawing



Pin assign
 1 : +Vout 5 : TRM
 2,3 : NC 7,8 : -Vin
 4 : -Vout 9,10 : +Vin

Note A : Indicate of model name, lot No. and country of manufacture.

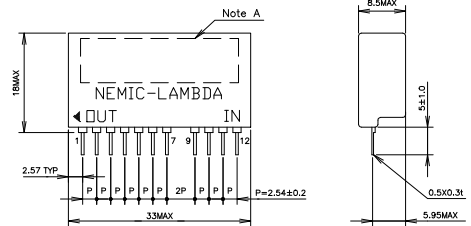
PV1R5



Pin assign
 1 : +Vout 5 : TRM
 2,3 : COM 7,8 : -Vin
 4 : -Vout 9,10 : +Vin

Note A : Indicate of model name, lot No. and country of manufacture.

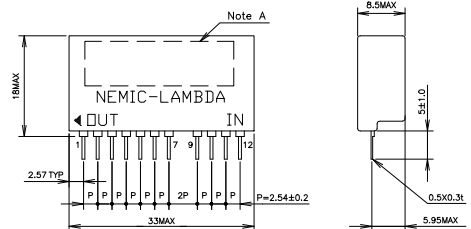
PVD1R5



Pin assign
 1,2 : +Vout 7 : TRM
 3,4 : NC 9,10 : -Vin
 5,6 : -Vout 11,12 : +Vin

Note A : Indicate of model name, lot No. and country of manufacture.

PV3



Pin assign
 1,2 : +Vout 7 : TRM
 3,4 : COM 9,10 : -Vin
 5,6 : -Vout 11,12 : +Vin

Note A : Indicate of model name, lot No. and country of manufacture.

PVD3