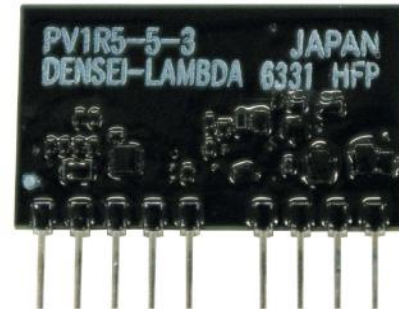


Single Inline Package DC-DC Converters (1-3 Watts)

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

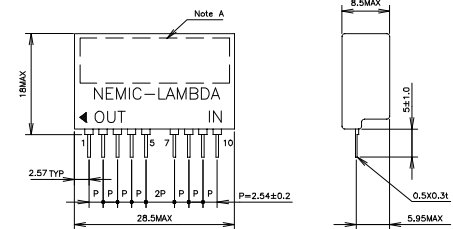
Other DC-DC Products

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
<https://product.tdk.com/info/en/products/power/index.html>



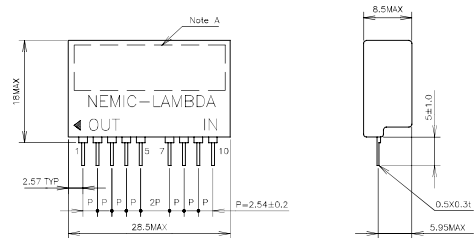
Outline Drawing



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.

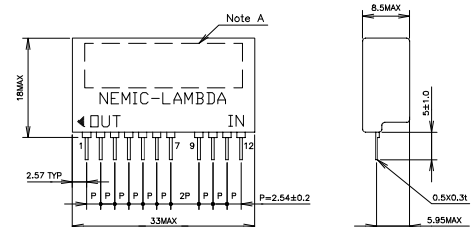
PV1R5



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.

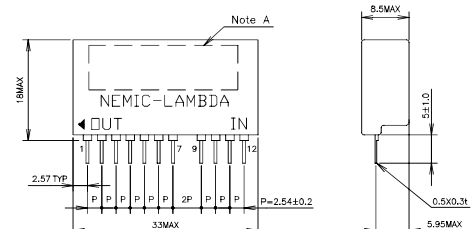
PVD1R5



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

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[PV1R5-48-3.3](#) [PV1R5-5-3.3](#) [PV1R5-5-5](#) [PV3-12-5](#) [PV3-24-5](#) [PV3-48-3.3](#) [PV3-5-3.3](#) [PV3-5-5](#) [PV1R5-12-5](#)
[PV1R5-24-5](#) [PV1R5-48-5](#) [PV3-5-12](#) [PV1R5-5-12](#) [PV3-48-5](#)