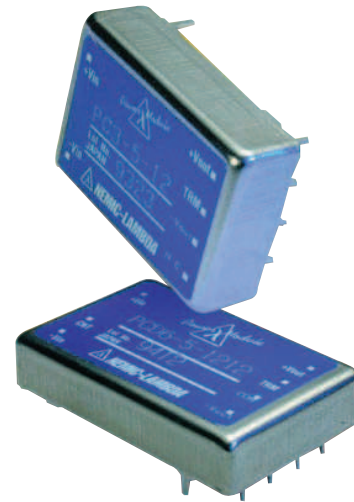


## Compact, Low-Power DC-DC Converters

### Features

- ◆ Compact Footprint / Low- Profile
- ◆ 5V, 12V, 24V & 48V Inputs
- ◆ 3.3 - 15V Single +/-12V Dual Outputs
- ◆ Output Voltage Adjustment
- ◆ Input-Output Isolation
- ◆ Integral Input Fuse
- ◆ Self contained
- ◆ Multiple Input Voltage configurations
- ◆ Five sided metal case



### Key Market Segments & Applications



COMM



RoHS

### Specifications

| Model                     |     | 3.3V                                                                        | 5V      | 12V     |
|---------------------------|-----|-----------------------------------------------------------------------------|---------|---------|
| DC Input                  | -   | 5V: 4.5-9.0V, 12V: 9-18V, 24V: 18-36V, 48V: 36-72V                          |         |         |
| Efficiency                | -   | 66 to 85% model dependant                                                   |         |         |
| Output Voltage Accuracy   | -   | ±5%                                                                         |         |         |
| Isolation Voltage         | -   | 500VAC 1 min. Input-Output, Input-Chassis                                   |         |         |
| Output Adjustment         | -   | 2.84V-3.67V                                                                 | 4.3V-6V | 12V-15V |
| Line Regulation           | mV  | 20                                                                          |         | 30      |
| Load Regulation           | mV  | 40                                                                          |         | 100     |
| Preload                   | -   | No preload required                                                         |         |         |
| Output Ripple             | mV  | 120                                                                         |         |         |
| Overcurrent Protection    | -   | Output current limiting with automatic recovery.                            |         |         |
| Overvoltage protection    | -   | No                                                                          |         |         |
| Remote On/Off             | -   | PC6 / PCD6 models only                                                      |         |         |
| Cooling                   | -   | Convection Cooled                                                           |         |         |
| Operating Temp. Range     | -   | -20 to 70°C, derate linearly to 40% load from 50 to 70°C                    |         |         |
| Storage Temperature       | -   | -40°C to 85°C                                                               |         |         |
| Humidity (Non condensing) | -   | 20 - 95% RH                                                                 |         |         |
| Temperature Drift         | mV  | 50                                                                          |         | 100     |
| Isolation Resistance      | -   | >50M at 25°C and 70% RH 500 VDC Output-Chassis                              |         |         |
| Shock                     | -   | 100G                                                                        |         |         |
| Vibration (non operating) | -   | 10-55-10 Hz (sweep for 15 min.) amplitude 1.5mm                             |         |         |
| Weight                    | -   | PC1R5 - 6g, PC3 models - 10g, PC6 models - 17g                              |         |         |
| Size (L"x W"x H")         | in  | PC1R5: 1.10 x 0.63 x 0.31; PC3: 1.12 x 0.81 x 0.33; PC6: 1.61 x 1.02 x 0.33 |         |         |
| Warranty                  | yrs | 2                                                                           |         |         |

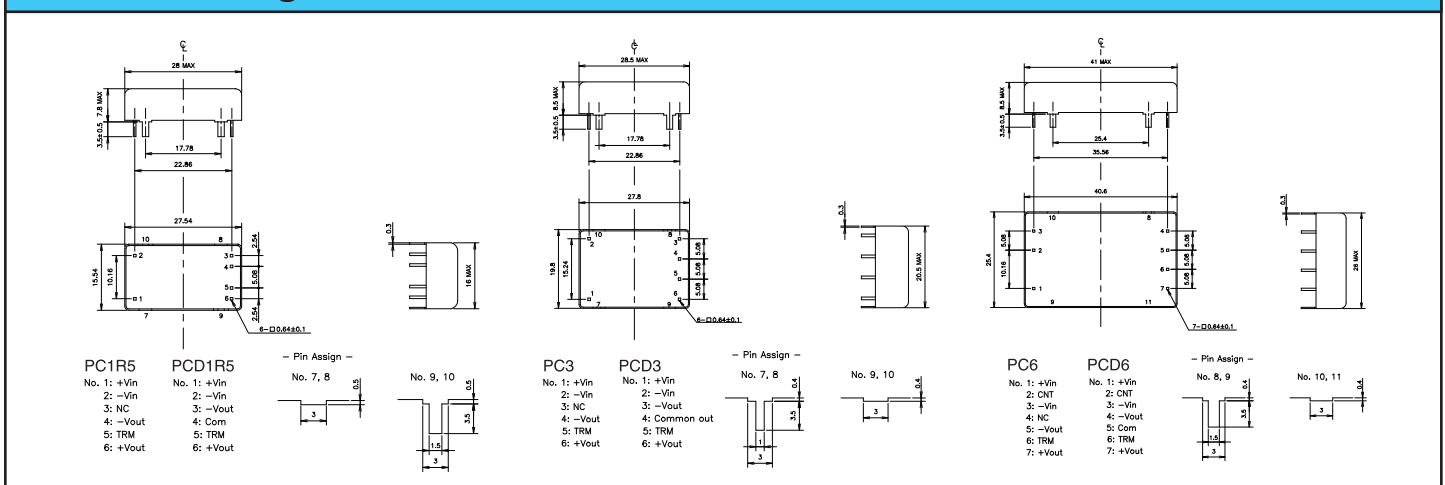
Note: See Installation Manual for full specifications, test methods of parameters and application notes.

# OBSOLETE

## Model Selector

|                | Output Voltage | Max Current (A) | Output Power (W) | 5V Input       | 12V Input      | 24V Input      | 48V Input      |
|----------------|----------------|-----------------|------------------|----------------|----------------|----------------|----------------|
| Single Outputs |                |                 |                  |                |                |                |                |
|                | 3.3            | 0.4             | 1.5              | CC1R5-0503SF-E | CC1R5-1203SF-E | CC1R5-2403SF-E | CC1R5-4803SF-E |
|                | 3.3            | 0.8             | 3                | CC3-0503SF-E   | CC3-1203SF-E   | CC3-2403SF-E   | CC3-4803SF-E   |
|                | 3.3            | 1.2             | 6                | CC6-0503SF-E   | CC6-1203SF-E   | CC6-2403SF-E   | CC6-4803SF-E   |
|                | 3.3            | 2.5             | 10               | CC10-0503SF-E  | CC10-1203SF-E  | CC10-2403SF-E  | CC10-4803SF-E  |
|                | 3.3            | 4.5             | 15               | -              | -              | CC15-2403SF-E  | -              |
|                | 3.3            | 7.5             | 25               | -              | -              | CC25-2403SF-E  | -              |
|                | 5              | 0.3             | 1.5              | CC1R5-0505SF-E | CC1R5-1205SF-E | CC1R5-2405SF-E | CC1R5-4805SF-E |
|                | 5              | 0.6             | 3                | CC3-0505SF-E   | CC3-1205SF-E   | CC3-2405SF-E   | CC3-4805SF-E   |
|                | 5              | 1.0             | 5                | CC6-0505SF-E   | -              | -              | -              |
|                | 5              | 1.2             | 6                | -              | CC6-1205SF-E   | CC6-2405SF-E   | CC6-4805SF-E   |
|                | 5              | 2.0             | 10               | CC10-0505SF-E  | CC10-1205SF-E  | CC10-2405SF-E  | CC10-4805SF-E  |
|                | 5              | 3.0             | 15               | -              | -              | CC15-2405SF-E  | -              |
|                | 5              | 5.0             | 25               | -              | -              | CC25-2405SF-E  | -              |
|                | 12(15)         | 0.125(0.1)      | 1.5              | CC1R5-0512SF-E | CC1R5-1212SF-E | CC1R5-2412SF-E | CC1R5-4812SF-E |
|                | 12(15)         | 0.25(0.2)       | 3                | CC3-0512SF-E   | CC3-1212SF-E   | CC3-2412SF-E   | CC3-4812SF-E   |
|                | 12(15)         | 0.5(0.4)        | 6                | CC6-0512SF-E   | CC6-1212SF-E   | CC6-2412SF-E   | CC6-4812SF-E   |
|                | 12(15)         | 0.8(0.64)       | 10               | CC10-0512SF-E  | -              | -              | -              |
|                | 12(15)         | 1.0(0.8)        | 10               | -              | CC10-1212SF-E  | CC10-2412SF-E  | CC10-4812SF-E  |
| Dual Outputs   |                |                 |                  |                |                |                |                |
|                | ±12 (15)3      | 0.06(0.05)      | 1.5              | CC1R5-0512DF-E | CC1R5-1212DF-E | CC1R5-2412DF-E | CC1R5-4812DF-E |
|                | ±12 (15)3      | 0.125(0.1)      | 3                | CC3-0512DF-E   | CC3-1212DF-E   | CC3-2412DF-E   | CC3-4812DF-E   |
|                | ±12 (15)3      | 0.25(0.2)       | 6                | CC6-0512DF-E   | CC6-1212DF-E   | CC6-2412DF-E   | CC6-4812DF-E   |
|                | ±12 (15)3      | 0.4(0.32)       | 10               | CC10-0512DF-E  | -              | -              | -              |
|                | ±12 (15)3      | 0.45(0.36)      | 10               | -              | CC10-1212DF-E  | CC10-2412DF-E  | CC10-4812DF-E  |

## Outline Drawing



## Pinout

| Pin Description | Function                   |
|-----------------|----------------------------|
| -Vin            | Negative Input Terminal    |
| +Vin            | Positive Input Terminal    |
| +V              | Positive Output Terminal   |
| -V              | Negative Output Terminal   |
| TRIM            | Output adjustment Trim pin |
| CNT             | Remote ON/OFF              |

## Other Lambda DC-DC Products

|    |                                                       |
|----|-------------------------------------------------------|
| X  | 10 - 20W, 24 & 48V input DC-DC converters             |
| SX | Surface Mount 20W, 24 & 48V input DC-DC converters    |
| PV | 1.5 - 3W, Single Inline Pkg. 5V, 12V, 24V & 48V input |

For Additional Information, please visit  
[us.tdk-lambda.com/lp/products/pc-series.htm](http://us.tdk-lambda.com/lp/products/pc-series.htm)



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