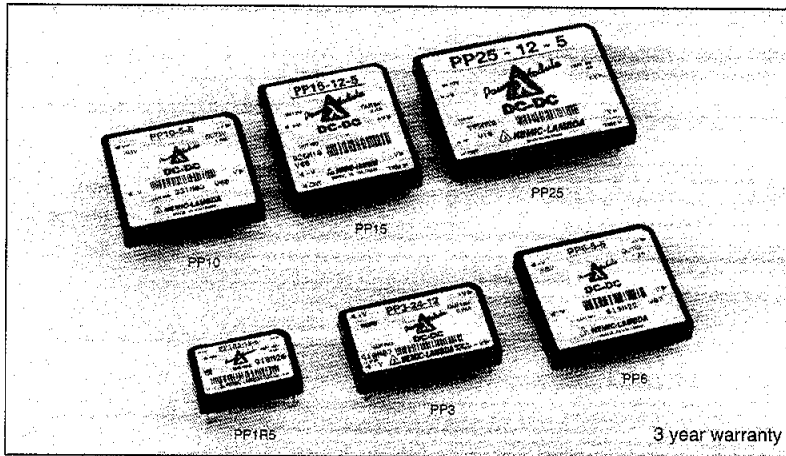




Model name

PP 15-48-5

Name of series Output power Nominal output voltage
Nominal input voltage

Features

- Compact and single output DC-DC converter
Ultra-thin profile: 8mm
- Wide input voltage range
DC5V input: DC4.5 ~ 7.2V (PP25: 4.7V ~ 7.2V)
DC12V input: DC9 ~ 18V (PP1R5 ~ PP10: 8 ~ 16.5V)
DC24V input: DC18 ~ 36V (PP1R5 ~ PP10: 18 ~ 32V)
DC48V input: DC36 ~ 72V (PP1R5 ~ PP10: 32 ~ 63V)
- Operating temperature: -20 ~ +71°C
- Isolation between input and output
- PP15, PP25: Output voltage variable, on/off control
- 3 year warranty

Specifications

1. Input voltage range	DC5V input: DC4.5 ~ 7.2V (PP25: 4.7 ~ 7.2V) DC12V input: DC9 ~ 18V (PP1R5 ~ PP10: 8 ~ 16.5V) DC24V input: DC18 ~ 36V (PP1R5 ~ PP10: 18 ~ 32V) DC48V input: DC36 ~ 72V (PP1R5 ~ PP10: 32 ~ 63V)
2. Output voltage range	Fixed (PP15, PP25: +5% available with external resistor)
3. Cooling	Convection cooling
4. Operating ambient temperature	-20 ~ +71°C PP1R5 ~ PP10: Output derating -20°C ~ +50°C: 100%, +71°C: 20% PP15, PP25: Output derating -20°C ~ +55°C: 100%, +71°C: 50% (5V input of PP25: Output derating -20°C ~ +50°C: 100%, +71°C: 50%) (48V input of PP25: output derating -20°C ~ +40°C: 100%, +71°C: 40%)
5. Withstand voltage	Input-output, Input-case: 500VAC for 1 min.
6. Functions	Over current protection, PP15, PP25: Remote on/off control & Over voltage protection

Product lineup

Model name		Output voltage	Output current	Output power	UL	CSA	EN
PP1R5	PP1R5-5-5	5V	0.3A	1.5W			
	PP1R5-5-12	12V	0.12A	1.44W			
	PP1R5-5-15	15V	0.1A	1.5W			
	PP1R5-12-5	5V	0.3A	1.5W			
	PP1R5-12-12	12V	0.12A	1.44W			
	PP1R5-12-15	15V	0.1A	1.5W			
	PP1R5-24-5	5V	0.3A	1.5W			
	PP1R5-24-12	12V	0.12A	1.44W			
	PP1R5-24-15	15V	0.1A	1.5W			
	PP1R5-48-5	5V	0.3A	1.5W			
	PP1R5-48-12	12V	0.12A	1.44W			
	PP1R5-48-15	15V	0.1A	1.5W			
PP3	PP3-5-5	5V	0.6A	3.0W			
	PP3-5-12	12V	0.24A	2.88W			
	PP3-5-15	15V	0.2A	3.0W			
	PP3-12-5	5V	0.6A	3.0W			
	PP3-12-12	12V	0.24A	2.88W			
	PP3-12-15	15V	0.2A	3.0W			
	PP3-24-5	5V	0.6A	3.0W	○	○	○
	PP3-24-12	12V	0.24A	2.88W	○	○	○
	PP3-24-15	15V	0.2A	3.0W	○	○	○
	PP3-48-5	5V	0.6A	3.0W	○	○	○
	PP3-48-12	12V	0.24A	2.88W	○	○	○
	PP3-48-15	15V	0.2A	3.0W	○	○	○
PP6	PP6-5-5	5V	1.2A	6.0W			
	PP6-5-12	12V	0.5A	6.0W			
	PP6-5-15	15V	0.4A	6.0W			
	PP6-12-5	5V	1.2A	6.0W			
	PP6-12-12	12V	0.5A	6.0W			
	PP6-12-15	15V	0.4A	6.0W			
	PP6-24-5	5V	1.2A	6.0W			
	PP6-24-12	12V	0.5A	6.0W			
	PP6-24-15	15V	0.4A	6.0W			
	PP6-48-5	5V	1.2A	6.0W			
	PP6-48-12	12V	0.5A	6.0W			
	PP6-48-15	15V	0.4A	6.0W			

Model name		Output voltage	Output current	Output power	UL	CSA	EN
PP10	PP10-5-5	5V	1.6A	8.0W			
	PP10-5-12	12V	0.7A	8.4W			
	PP10-5-15	15V	0.6A	9.0W			
	PP10-12-5	5V	2.0A	10.0W			
	PP10-12-12	12V	0.9A	10.8W			
	PP10-12-15	15V	0.7A	10.5W			
	PP10-24-5	5V	2.0A	10.0W			
	PP10-24-12	12V	0.9A	10.8W			
	PP10-24-15	15V	0.7A	10.5W			
	PP10-48-3.3	3.3V	2.0V	6.6W			
	PP10-48-5	5V	2.0A	10.0W			
	PP10-48-12	12V	0.9A	10.8W			
PP15	PP10-48-15	15V	0.7A	10.5W			
	PP15-12-5	5V	2.4A	12W			
	PP15-12-12	12V	1.3A	15.6W			
	PP15-12-15	15V	1.0A	15W			
	PP15-24-5	5V	2.4A	12W			
	PP15-24-12	12V	1.3A	15.6W			
	PP15-24-15	15V	1.0A	15W			
	PP15-48-3.3	3.3V	2.4A	7.92W			
	PP15-48-5	5V	2.4A	12W	○	○	○
	PP15-48-12	12V	1.3A	15.6W			
	PP15-48-15	15V	1.0A	15W			
	PP25	PP25-5-3.3	3.3V	3.0A	9.9W		
PP25-5-5.2		5.2V	2.9A	15.08W			
PP25-12-5		5V	4.0A	20W			
PP25-12-12		12V	2.1A	25.2W	○	○	○
PP25-12-15		15V	1.7A	25.5W			
PP25-24-5		5V	4.0A	20W			
PP25-24-12		12V	2.1A	25.2W	○	○	○
PP25-24-15		15V	1.7A	25.5W			
PP25-48-3.3		3.3V	5.0A	16.5W			
PP25-48-5		5V	4.0A	20W	○	○	○
PP25-48-12		12V	2.1A	25.2W	○	○	○
PP25-48-15		15V	1.7A	25.5W			

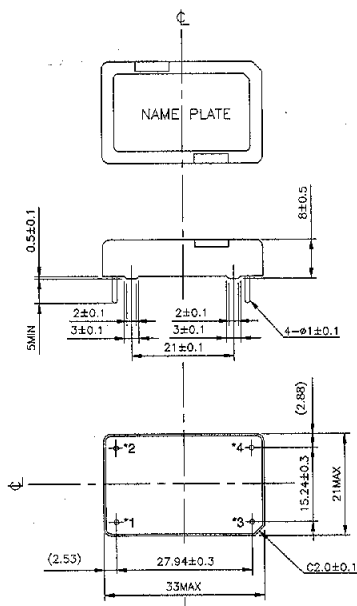
○ : Safety standard approved

- Request customer specification for further details of specifications, outline, characteristics, etc.
- Read the instruction manual before usage.
- Contact us about delivery before ordering.

PP-SERIES

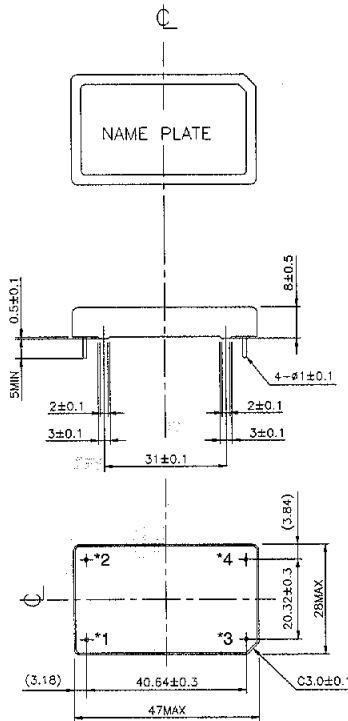
LAMBDA
DENSEI-LAMBDA

PP3



Terminal assignments
 *1 +V □ INPUT
 *2 -V □
 *3 +V □ OUTPUT
 *4 -V □

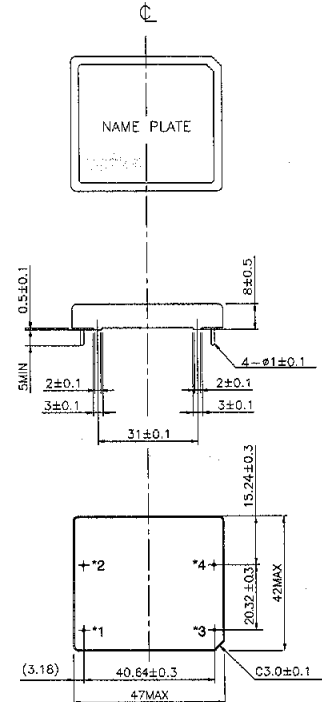
Case: Copper (Thickness 0.4mm)
 Weight: 15g



Terminal assignments
 *1 +V □ INPUT
 *2 -V □
 *3 +V □ OUTPUT
 *4 -V □

Case: Copper (Thickness 0.4mm)
 Weight: 25g

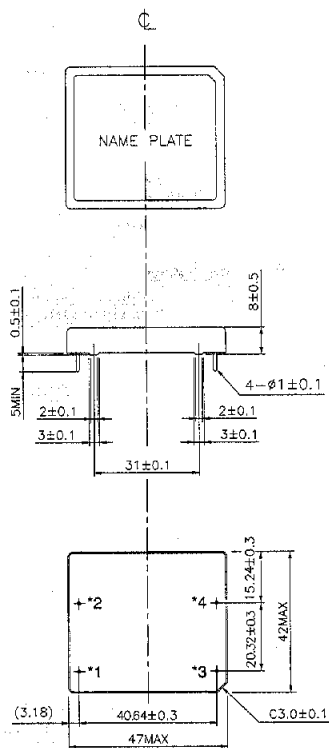
PP6



Terminal assignments
 *1 +V □ INPUT
 *2 -V □
 *3 +V □ OUTPUT
 *4 -V □

Case: Copper (Thickness 0.4mm)
 Weight: 40g

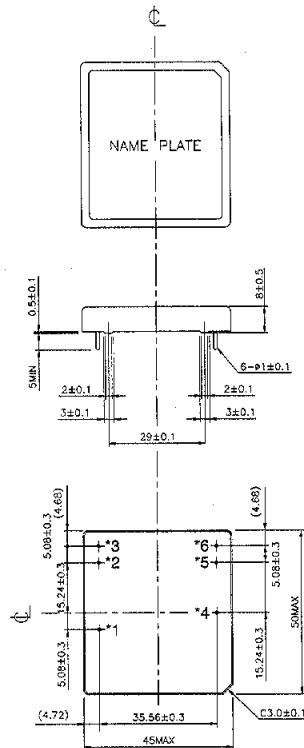
PP10



Terminal assignments
 *1 +V □ INPUT
 *2 -V □
 *3 +V □ OUTPUT
 *4 -V □

Case: Copper (Thickness 0.4mm)
 Weight: 40g

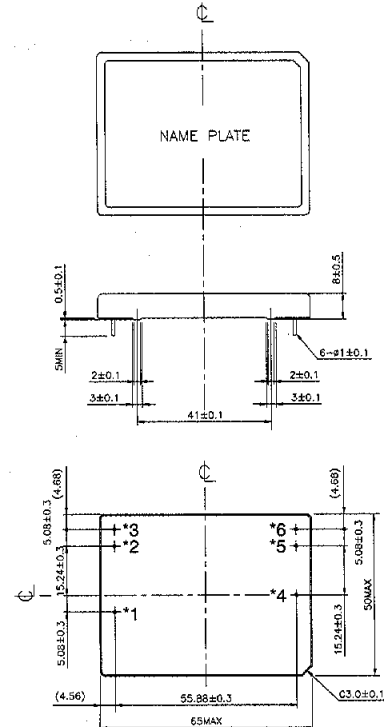
PP15



Terminal assignments
 *1 +V □ INPUT
 *2 -V □
 *3 CNT
 *4 +V □ OUTPUT
 *5 -V □
 *6 TRM

Case: Copper (Thickness 0.4mm)
 Weight: 55g

PP25



Terminal assignments
 *1 +V □ INPUT
 *2 -V □
 *3 CNT
 *4 +V □ OUTPUT
 *5 -V □
 *6 TRM

Case: Copper (Thickness 0.4mm)
 Weight: 65g