

TDK DC to DC Converters, DC to AC Inverters

1.5W

40E D ■ 8821248 0004997 9 ■ TDKA

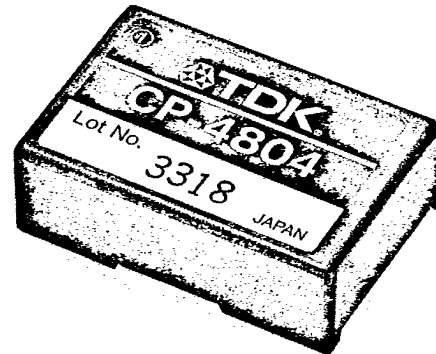
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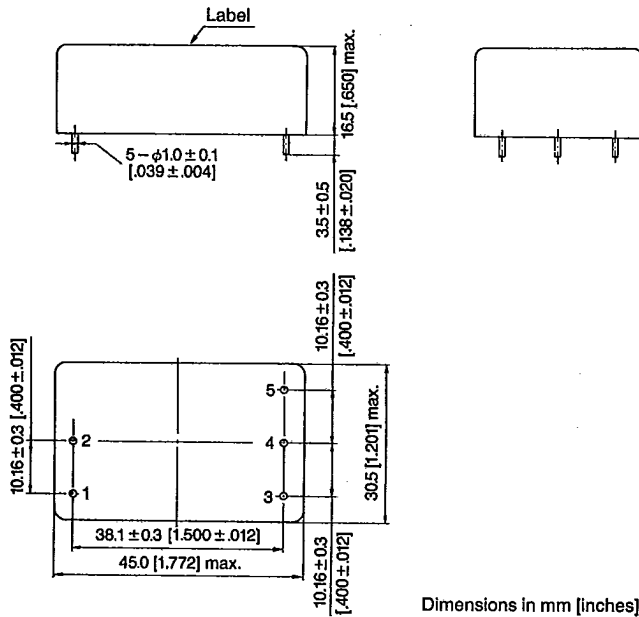
CP SERIES DC TO DC CONVERTERS

FEATURES

- High efficiency: With TDK's high performance ferrite material and design technology.
- Wide input voltage range.
- Low noise: Ripple and noise voltage is 1% p-p max. of output DC voltage. Input filter minimizes reflected ripple.



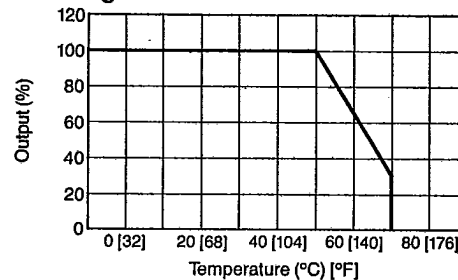
SHAPES AND DIMENSIONS



TEMPERATURE AND HUMIDITY RANGES

Operating temperature	0 to 50°C [32 to 122°F] (at 50°C [122°F] or above, refer to derating curve.)
Storage temperature	-20 to +85°C [-4 to +185°F]
Humidity	95% max. (Maximum wet bulb temperature: 38°C [100.4°F])

Derating curve



Terminal pin No.	Part No.	
	CP-3800	CP-4800
1	+Vin	+Vin
2	Common in*	Common in*
3	No connection	+Vout
4	Common out*	Common out*
5	-Vout	-Vout

* These terminal pins are internally common but by using the input and output pins independently, noise voltage can be reduced effectively. A filter can be constructed on the input side by externally installing a capacitor (33 μ F min.) on the input side and permits a reduction in switching noise voltage returning to the input side.

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ELECTRICAL CHARACTERISTICS

Part No.	Input voltage (V)	Output* ¹ voltage (V)	Output current (mA)	Ripple and noise voltage* ³ (% p-p) max.	Output voltage stability depending on:			Efficiency* ⁴ (%) min.	Weight (g)						
					Input (%) max.	Load 10 to 100% (%) max.	Temp. (%/°C) max.								
CP-3801	+4.5 to +12.0	− 9 ± 3%	14 to 140	1.0	1.5	2.0	0.08	60	35						
CP-3802	+10.8 to +28.8														
CP-3803	+4.5 to +12.0	− 12 ± 3%	12 to 120												
CP-3804	+10.8 to +28.8														
CP-3805	+4.5 to +12.0	− 15 ± 3%	10 to 100												
CP-3806	+10.8 to +28.8														
CP-4801	+4.5 to +12.0	± 12 ± 5%	(5 to 50) × 2* ²	1.0	2.0	2.5	0.10	60	35						
CP-4802	+10.8 to +28.8														
CP-4803	+4.5 to +12.0	± 15 ± 5%	(4 to 40) × 2* ²												
CP-4804	+10.8 to +28.8														

*¹ Operating conditions: typical input voltage, max. output current, and 25°C [77°F] atmosphere.

*² With balanced output current.

*³ Measured with a 25MHz bandwidth.

*⁴ Maximum load at typical input voltage.