

CBS450 SERIES

Measures: 2.4 x 2.28 x 0.5"

COSEL

DC-DC Converters Power Module type COSEL

CBS450

CB S 450 48 28

Ordering information



(1) Series name (2) Single output (3) Output wattage (4) Input voltage (5) Output voltage (5)Output voltage
(6)Optional
R:with Remote ON/OFF
Positive logic control
T:with Mounting hole
\$\phi 3.4 \text{ thru}\$

MODEL	CBS4504824	CBS4504828	CBS4504832
MAX OUTPUT WATTAGE[W]	456	448	400
DC OUTPUT	24V 19A	28V 16A	32V 12.5A

SPECIFICATIONS

	MODEL		CBS4504824	CBS4504828	CBS4504832
INPUT	VOLTAGE[V]		DC38 - 60	DC36 - 76	DC36 - 76
	CURRENT[A] *1		10.6typ	10.5typ	9.3typ
	EFFICIENCY[%] *1		90typ	91typ	91typ
ОИТРИТ	VOLTAGE[V]		24	28	32
	CURRENT[A]		19	16	12.5
	LINE REGULATION[mV]		48max	56max	64max
	LOAD REGULATION[mV]		48max	56max	64max
	RIPPLE[mVp-p]	-20 to +100°C *2	180max	210max	210max
		-40 to -20℃ *2	220max	260max	260max
		0 to 15%Load *2	360max	430max	430max
	RIPPLE NOISE[mVp-p]	-20 to +100°C *2	220max	260max	260max
		-40 to -20℃ *2	280max	330max	330max
		0 to 15%Load *2	440max	520max	520max
	TEMPERATURE REGULATION[mV]	0 to +65℃	240max	280max	280max
		-40 to +100℃	480max	560max	560max
	DRIFT[mV] *3		90max	90max	120max
	START-UP TIME[ms]		200max (DCIN 48V, Io=100%)		
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V] *4		Fixed (TRM pin open), adjustable by external resistor		
			19.2 - 26.0	16.8 - 32.2	25.6 - 35.2
	OUTPUT VOLTAGE SETTING[V] *1		23.52 - 24.48	27.44 - 28.56	31.36 - 32.64
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically		
	OVERVOLTAGE PROTECTION[V]		27.60 - 33.60	32.20 - 39.20	36.80 - 44.80
	REMOTE SENSING		Provided		
	REMOTE ON/OFF		Provided (Negative logic L : ON, H : OFF)		
	INPUT-OUTPUT		DC1,500V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min(20±15 $^{\circ}$ C)		
	INPUT-BASE PLATE		DC1,500V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min(20±15 $^{\circ}$ C)		
	OUTPUT-BASE PLATE		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)		
ENVIRONMENT	OPERATING TEMP.;HUMID.AND ALTITUDE		-40 to +100℃ (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max		
	STORAGE TEMP.,HUMID.AND ALTITUDE		-40 to +100℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max		
	VIBRATION		10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis		
	IMPACT		196.1m/s² (20G), 11ms, once each along X, Y and Z axis		
SAFETY	AGENCY APPROVALS UL60950-1, C-UL, EN60950-1				
OTHERS	CASE SIZE/WEIGHT		57.9 x 12.7 x 61.0mm [2.28 x 0.5 x 2.4 inches] (Wx H x D) / 83g max		
	COOLING METHOD		Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)		

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^{*1} At rated input(DC48V), rated load, and aluminum base plate temperature 25°C.
*2 Ripple and ripple noise is measured by using measuring board with recommended capacitor Co & the film capacitor 0.1 µ F. Refer to the manual.
*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

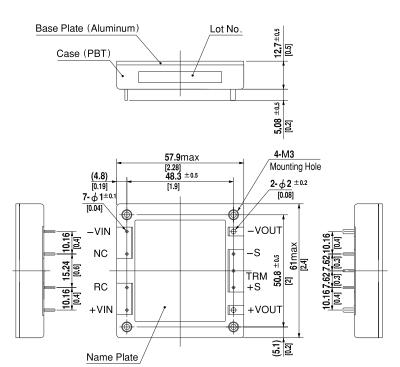
^{*4} Refer to the manual for the input range.

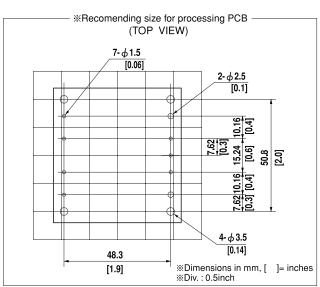


COSEL



External view





%Weight : 83g max
%Tolerance : ±0.3 [±0.012]
%Case : PBT **%Base Plate: Aluminum**

%Dimensions in mm, []= inches *Mounting hole screwing torque : 0.49N•m(5.0kgf•cm)max