

Measures: 4.53 x .28 x 0.50"

COSEL **DC-DC Converters Power Module type DBS200B**

Ordering information DB S 200 В 03



(1)Series name	Э
②Single output	ut
3Output watta	age
(4)Input voltag	e
B :DC200 -	400V
⑤Output volta	ge

MODEL	DBS200B03	DBS200B05	DBS200B07	DBS200B12
MAX OUTPUT WATTAGE[W]	165	200	210	240
DC OUTPUT	3.3V 50A	5V 40A	7.5V 28A	12V 20A

SPECIFICATIONS

	MODEL		DBS200B03	DBS200B05	DBS200B07	DBS200B12	
	VOLTAGE[V]		DC200 - 400				
-	CURRENT[A] *1		0.75typ	0.86typ	0.87typ	0.99typ	
	EFFICIENCY[%] *1		79typ	83typ	86typ	87typ	
	VOLTAGE[V]		3.3	5	7.5	12	
	CURRENT[A]		50	40	28	20	
	LINE REGULATION[mV]		16max	20max	30max	40max	
	LOAD REGULATION[mV]		30max	40max	60max	100max	
	RIPPLE[mVp-p]	0 to +85°C *2	80max	80max	100max	120max	
		-20 - 0℃ *2	140max	140max	150max	160max	
	RIPPLE NOISE[mVp-p]	0 to +85°C *2	100max	100max	140max	150max	
		-20 - 0℃ *2	150max	150max	160max	180max	
	TEMPERATURE REGULATION[mV]	0 to +65℃	35max	50max	75max	120max	
		-20 to +85℃	60max	85max	130max	200max	
	DRIFT[mV] *3		16max	20max	30max	40max	
	START-UP TIME[ms]		200max (DCIN 280V, lo=100%)				
	OUTPUT VOLTAGE ADJUSTMENT RANGE		Fixed (TRM pin open), 60 - 110% adjustable by external VR or external voltage				
	OUTPUT VOLTAGE SETTING[V]		3.25 - 3.45	4.90 - 5.20	7.25 - 7.85	11.60 - 12.60	
	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically				
CIRCUIT AND	OVERVOLTAGE PROTECTION		4.00 - 5.50V	5.75 - 7.00V	8.60 - 10.50V	13.80 - 16.80V	
	REMOTE SENSING		Provided				
	REMOTE ON/OFF		Provided (On both side of input and output)				
ISOLATION			AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)				
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15°C)				
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)				
	OUTPUT-RC2,RC3		AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (20±15℃)				
	OPERATING TEMP.,HUMID.AND A			m base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) may			
				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			ce each along X, Y and Z axis			
SAFETY	AGENCY APPROV						
OTHERS	CASE SIZE/WEIGH		•	1×0.5×4.6 inches] (W×H×D) / 150g max			
	COOLING METHOD		Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)				

^{*1} At rated input(DC280V) and rated load.

*2 Ripple and ripple noise is measured by using measuring board with the recommended capacitor Co & the film capacitor 0.1 µ F.

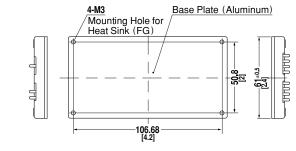
Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN:RM101). Refer to the manual.

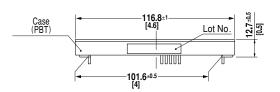
*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

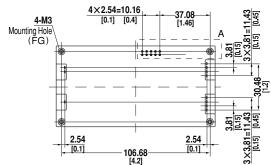
*4 Please consult us in regard to use from -40°C.

Measures: 4.53 x .28 x 0.50"

External view





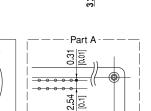


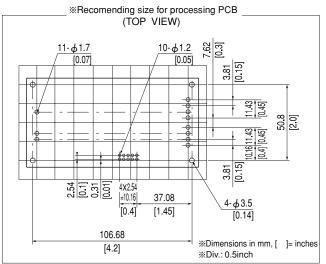
Signal Pin

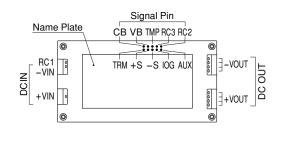
 $10 - \phi 0.6$

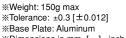
 $3.0^{+1}_{-0.5}$

[0.12]









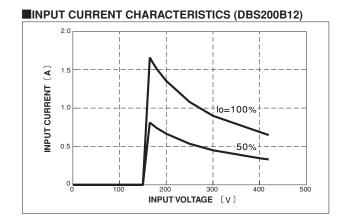
**Dimensions in mm, []= inches

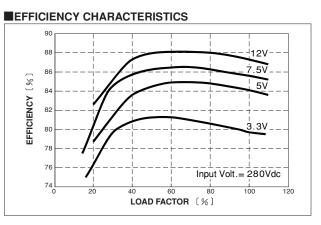
*Mounting hole screwing torque: 0.49N·m(5.0kgf·cm)

Performance data

DC IN/DC OUT/RC1 Pin

t=0.8





Specifications are subject to change without notice. It is responsibility of each customer to thoroughly test each product and part number under their unique parameters and environments to ensure a product will work properly and reliably