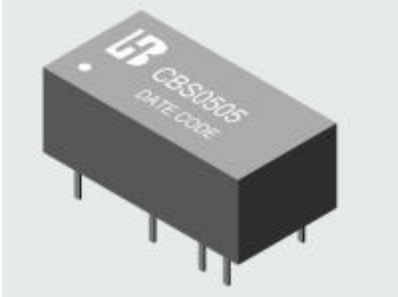


1. Features :

<ul style="list-style-type: none"> ■ 14 Pin DIL Package ■ Low Ripple and Noise ■ Input / Output Isolation 500 Vdc ■ 100 % Burn-In ■ Input Filter with Internal Capacitor ■ Custom Design Available 	
--	--

2. Absolute maximum ratings

(Exceeding these values may damage the module. [These are not continuous operating ratings](#))

Parameter	Condition	Min.	Typ.	Max.	Unit
Input Absolute Voltage Range	5V Input Model	-0.7	5	7.5	Vdc
	12V Input Model	-0.7	12	15	
	24V Input Model	-0.7	24	30	
Max. Output power		---	---	1	W
Output Short circuit duration		---	---	1.0	Second
Operating temperature		-40	---	+85	Deg
Storage temperature		-45	---	+125	

3. Nominal Input / Output Electrical Specifications :

(Specifications typical at Ta = +25°C, nominal input voltage, rated output current unless otherwise noted)

Parameter	Condition	Min.	Typ.	Max.	Unit
Input Voltage Range	5V Input Model	4.5	5	5.5	Vdc
	12V Input Model	10.8	12	13.2	
	24V Input Model	21.6	24	26.4	
Output Voltage Accuracy	Nominal Input	---	---	± 5.0	%
Voltage Balance (Dual Outputs)		---	---	± 1.0	%
Switching Frequency		---	25	---	KHz
Temperature Coefficient		---	± 0.01	± 0.02	% / °
Isolation Voltage	60 Seconds	500	---	---	Vdc
Isolation Resistance	500 Vdc	1000	---	---	M?
Isolation Capacitance	1 KHz / 250 V rms	---	60	---	pF
Max. Line Regulation (Per 1.0 % change in input change)		---	---	1.2	%

4. Model Selection Guide

4.1. 500 Vdc Isolation – Single Output

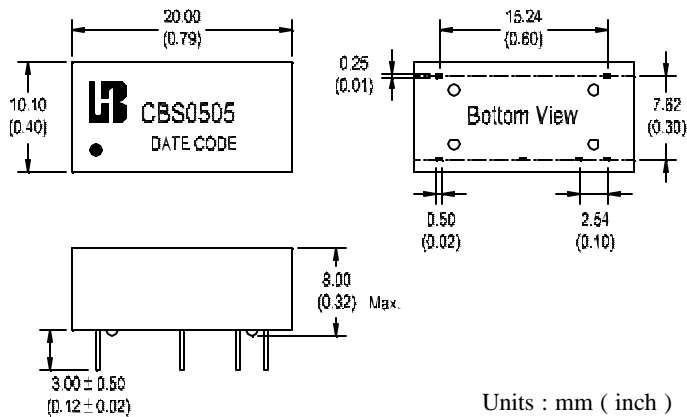
(Specifications typical at Ta = +25°C, Nominal input voltage, Rated output current unless otherwise noted)

Bothhand Model No.	Input Voltage (Vdc)	Output Voltage (Vdc)	Output Current (mA) Max.	Input Current @ No Load (mA) Typ.	Input Current @ Max. Load (mA) Typ.	Output Ripple (mV) Max.	Load Regulation (%) Max.	Efficiency (%) Typ.
CBS0505	5	5.0	150	35	215	75	± 8	70
CBS0509		9.0	80	35	215	75	± 8	70
CBS0512		12.0	60	35	240	75	± 8	60
CBS0515		15.0	50	35	250	75	± 8	60
CBS1205	12	5.0	150	30	104	75	± 8	60
CBS1212		12.0	60	30	100	75	± 8	60
CBSxxxx								

Notes

1. CBSxxxx is for Customer Design.
2. Load regulation is for output current change from 20 % to 100 % Max. Load.

Mechanical Dimension



Units : mm (inch)
 Tolerance : .xx ± 0.25
 (± 0.01)

Pin	500Vdc - Single		Pin
1	-Vin	+Vin	14
2	---	---	13
3			12
4	---	N.C	11
5	---	---	10
6			Vo (+)
7	N.C	Vo (-)	8

Note " --- " means Omitted

4.2. 500 Vdc Isolation – Dual Output

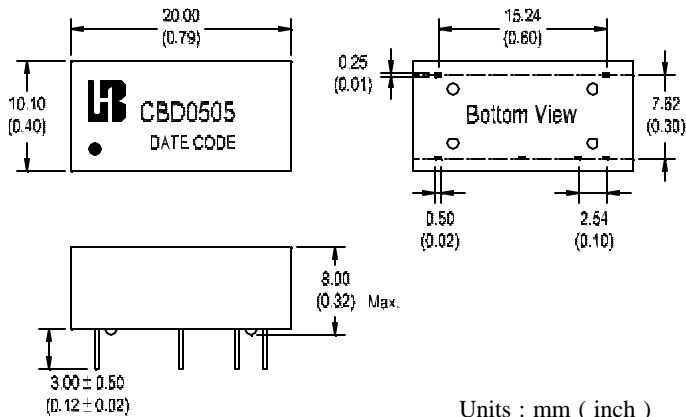
(Specifications typical at Ta = +25 °C, Nominal input voltage, Rated output current unless otherwise noted)

Bothhand Model No.	Input Voltage (Vdc)	Output Voltage (Vdc)	Output Current (mA) Max.	Input Current @ No Load (mA) Typ.	Input Current @ Max. Load (mA) Typ.	Output Ripple (mV) Max.	Load Regulation (%) Max.	Efficiency (%) Typ.
CBD0505	5	± 5.0	± 75	35	215	75	± 8	70
CBD0512		± 12.0	± 42	35	280	75	± 8	70
CBD0515		± 15.0	± 33	35	260	75	± 8	70
CBD1212	12	± 12.0	± 30	30	100	75	± 8	60
CBD1215		± 15.0	± 25	30	104	75	± 8	60
CBD2415	24	± 15.0	± 25	15	52	75	± 8	60
CBDxxxx								

Notes

1. **CBDxxxx** is for Customer Design.
2. Load regulation is for output current change from 0 % to 100 % Max. Load.

Mechanical Dimension



Units : mm (inch)

Tolerance : .xx ± 0.25

(± 0.01)

Pin	500Vdc - Dual		Pin
1	-Vin	+Vin	14
2	---	---	13
3			12
4		Vo (-)	11
5		---	10
6	Vo (+)		9
7	NC	Common	8

Note " --- " means Omitted