


## 1. Features :

<ul style="list-style-type: none"> <li>■ 16 Pin SMD Package</li> </ul>	
<ul style="list-style-type: none"> <li>■ Low Ripple and Noise</li> </ul>	
<ul style="list-style-type: none"> <li>■ Input / Output Isolation 1K Vdc or 2K Vdc</li> </ul>	
<ul style="list-style-type: none"> <li>■ 100 % Burn-In</li> </ul>	
<ul style="list-style-type: none"> <li>■ Input Filter with Internal Capacitor</li> </ul>	
<ul style="list-style-type: none"> <li>■ Custom Design Available</li> </ul>	

## 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	
Max. Output power		---	---	2.0	W
Output Short circuit duration		---	---	1.0	Second
Operating temperature	Output Full Load	-40	---	+85	°C
Storage temperature		-55	---	+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	
Output Voltage Accuracy	Nominal Input	---	---	± 5.0	%
Switching Frequency		---	70	---	KHz
Temperature Coefficient		---	± 0.01	± 0.02	% / °C
Isolation Voltage	Standard Series	1000	---	---	Vdc
	High Isolation Series	2000	---	---	
Isolation Resistance	500 Vdc	1000	---	---	MΩ
Isolation Capacitance	1 KHz / 250 mV rms	---	50	---	pF
Max. Line Regulation (Per 1.0 % change in input change)		---	---	1.3	%
Hi-Enable Signal Logic level Ve – Pin # 2	Output Voltage => 0	Ve Floating or No connection			Vdc
	Output Voltage => 0	0	---	0.8	
	Output Voltage => Hi	3.0	5	5.5	

### 4. Single Output Selection Guide :

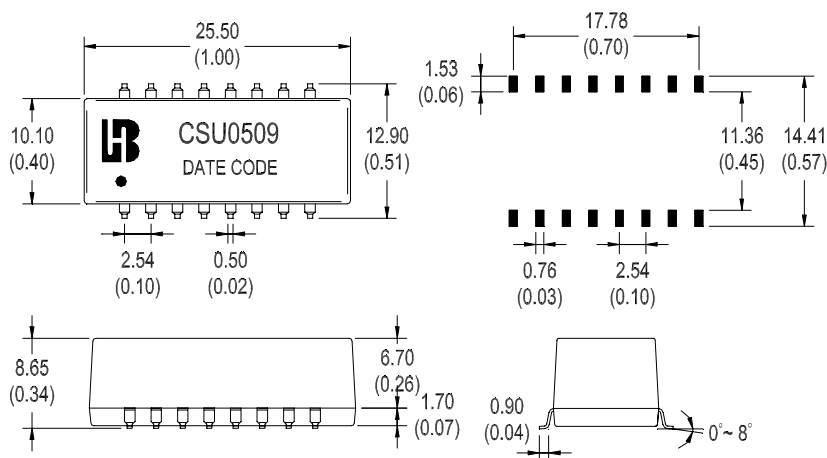
( Specifications typical at Ta = +25 °C , Nominal input voltage, Rated output current unless otherwise noted )

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.
<b>( 500Vdc Isolation )</b>								
CSU0509	5	9.0	200	30	456	70	± 8	79
CSU0509EH		9.0	200	38	486	70	± 8	74
CSU1209	12	9.0	200	18	188	70	± 8	80
CSU1209EH		9.0	200	21	197	70	± 8	76
<b>( 2KVdc Isolation )</b>								
CSU0509-20	5	9.0	200	30	456	70	± 8	79
CSU0509EH-20		9.0	200	38	486	70	± 8	74
CSU1209-20	12	9.0	200	18	188	70	± 8	80
CSU1209EH-20		9.0	200	21	197	70	± 8	76
CSUxxxxEH								

Notes :

1. CSUxxxxEH is for Customer Design.
2. Enable signal : Logic Hi - Active
3. Load regulation is for output current change from 20 % to 100 % Max. Load.

### Mechanical Dimension :



Pin	Single Output	Pin
1	-Vin	16
2	Ve	15
3	+Vin	14
4	NC	13
5		12
6		11
7	Vo (+)	10
8	Vo (-)	9

Units : mm ( inch )

Tolerance : .xx ± 0.25

( ± 0.01 )