

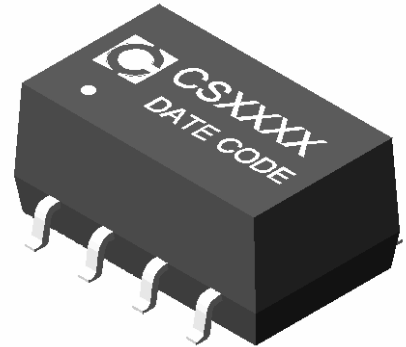


1 Watt DC to DC SMD Type single output Converter with isolation

P/N: CSXXXX-01 SERIES

Feature

- Efficiency up to 79%
- Small footprint
- SMD package styles
- Industry standard pinout
- UL94-V0 package
- No heat sink required
- 1K / 3K VDC isolation
- High power density
- Temperature range: -40°C ~ +85°C
- Low cost



Electrical Specifications @ 25°C	
Input Voltage Range	See Model List
Output Voltage Accuracy	±5%
Temperature Coefficient	0.03%/°C Max.
Ripple & Noise	(20MHz BW) 150mVp-p Max.
Output Short Circuit Protection	1 second
Line Regulation	1.2% Max.
Load Regulation	15%Max.(5V); 9%Max.(9V); 8.5%Max.(12V); 7%Max.(15V)
Isolation voltage	optional 1000VDC/3000VDC
Isolation resistance	1000MΩ Min.
Switching Frequency	80KHZ Min.
Operating Temperature Range	-40°C ~ +85°C
Temperature Rise at Full Load	25°C (Max)
Storage Temperature Range	-55°C ~ +125°C
Lead Temperature	300°C
MTBF	> 1,000,000 hours
Cooling	Free Air Convection
Storage Humidity Range	5% ~ 95%
Case	Package (UL94-V0)

Note:

1. Line regulation is for a 1.0% change in input voltage.
2. Load Regulation: measured from 10% to 100% load.
3. Isolation voltage is for 60 seconds.
4. Isolation resistance: test at 500 VDC.
5. Lead Temperature: 1.5mm from case for 10 seconds



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Model List:

No.	Model number	Input voltage	Output voltage	Io min	Io max	Load Reg.	Power
1.	CS0505-01	5 VDC	+ 5.00VDC	20.00mA	200.00mA	±15.00%	1.000(w)
2.	CS0509-01	5 VDC	+ 9.00VDC	23.00mA	111.00mA	±15.00%	1.000(w)
3.	CS0512-01	5 VDC	+ 12.00VDC	17.00mA	84.00mA	±8.50%	1.000(w)
4.	CS0515-01	5 VDC	+ 15.00VDC	13.00mA	67.00mA	±7.00%	1.000(w)
5.	CS1209-01	12 VDC	+ 9.00VDC	23.00mA	111.00mA	±15.00%	1.000(w)
6.	CS1205-01	12 VDC	+ 5.00VDC	20.00mA	200.00mA	±15.00%	1.000(w)
7.	CS1212-01	12 VDC	+ 12.00VDC	17.00mA	84.00mA	±8.50%	1.000(w)
8	CS1215-01	12 VDC	+ 15.00VDC	13.00mA	67.00mA	±8.50%	1.000(w)

Mechanical

<table border="1"> <thead> <tr> <th colspan="2">Pin connector</th> </tr> <tr> <th>Pin</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>VI-</td> </tr> <tr> <td>2</td> <td>VI+</td> </tr> <tr> <td>3</td> <td>NC</td> </tr> <tr> <td>4</td> <td>VO-</td> </tr> <tr> <td>5</td> <td>VO+</td> </tr> <tr> <td>6</td> <td>NC</td> </tr> <tr> <td>7</td> <td>NC</td> </tr> <tr> <td>8</td> <td>NC</td> </tr> </tbody> </table>	Pin connector		Pin	Function	1	VI-	2	VI+	3	NC	4	VO-	5	VO+	6	NC	7	NC	8	NC		
Pin connector																						
Pin	Function																					
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Tolerance: ±0.25 (0.010) unless specified otherwise