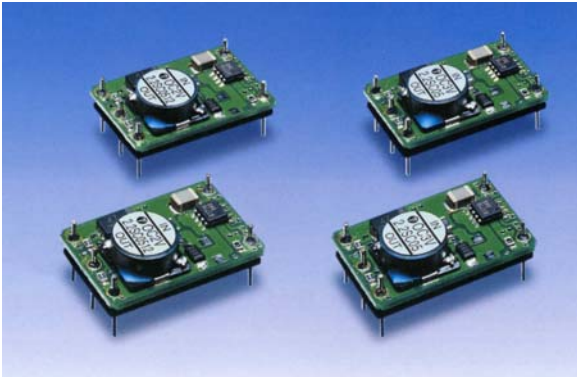


# 3~10 WATT NON-ISOLATED DC-DC CONVERTER



**OC2V –SC0512**

Specifications<DC/DC>	Model			
OC2V-2.2SC0512 S I N G L E	O C 2 V - 2 . 2 S C 0 5 1 2			
Input Voltage DC[V]	5/12			
Input Range DC[V]	4.5 or output voltage +1, whichever greater, to 14.0			
Input Range				
at no load [mA](typical)	6/6	6.5/6.5	7/7	9/7.5
at full load[mA](typical)	800/340	1070/460	1500/690	1810/930
Efficiency [%] (typical)	75/73	82/79	88/79	92/90
Input Voltage [V]in	5/12	5/12	5/12	6/12

Specifications<DC/DC>	Model			
OC2V-2.2SC0512 SINGLE	OC2V-2.2SC0512			
Output	1.5V	2.2V	3.3V	5.0V
Default Output Voltage [V]	+2.28 +/-0.2			
Switching Frequency [kHz]	130(fixed)(may decrease by 50% depending on output/input conditions)			
Output Voltage [V]	+1.5 to 5.0			
Output Current [A]	2.0			
Ripple and Noise [mVp-p](maximum)	100			
Regulation				
a.Static Line Regulation [V]	less than 2% of output voltage at input voltage 4.5 to 14V			
b.Static Load Regulation	less than 2.5% of output voltage at input voltage 5.0V or 6V and load 0 to 2A Less than 0.9% of output voltage at input voltage 5.0V or 6V and load 0.2 to 2A			
Recovery Time	5mS(maximum)			
Rise up time	300mS(maximum)			
<b>Functions</b>				
Overcurrent Protection	Current Limiting with automatic recovery			
Overvoltage Protection	Not available			
Trimming of output voltage	Not available			
Input Fuse	Installed[2.5A]			
<b>Environmental</b>				
Operating Temperature	-20 to 71C			
(derating)	2%/C(50C to 71C) (out of warranty on/over 71C)			
Operating Humidity	20-90%/RH(non-condensing)			
Storage Temperature	-20 to +85C			
Storage Humidity	20 to 90%/RH(non-condensing)			
Vibration	5-10Hz:10mm double amplitude,10-550Hz:24.5m/S <sup>2</sup> ,each along X,Y,Z axes(non-operating)			
Shock	294m/S <sup>2</sup>			
Cooling	Convection			
Weight (typical)	open board type:7g			

### Dimension diagram

