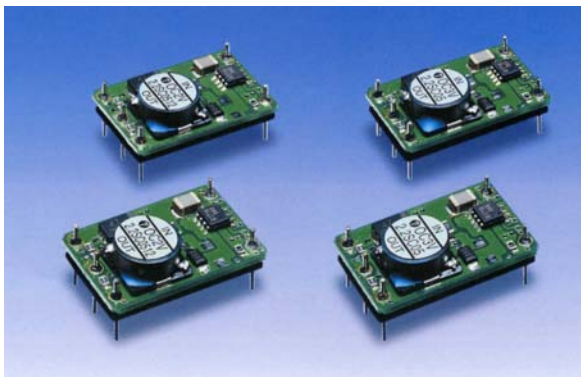


3~10 WATT NON-ISOLATED DC-DC CONVERTER

OC2V –SC0512



Specifications<DC/DC>	Model			
OC2V-2.2SC0512 S I N G L E	O C 2V -2 2SC 0512			
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)			
Functions				
Overcurrent Protection	Current Limiting with automatic recovery			
Overvoltage Protection	Not available			
Trimming of output voltage	Not available			
Input Fuse	Installed[2.5A]			
Environmental				
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 ² ,each along X,Y,Z axes(non-operating)			
Shock	294m/S ²			
Cooling	Convection			
Weight (typical)	open board type:7g			

Dimension diagram

