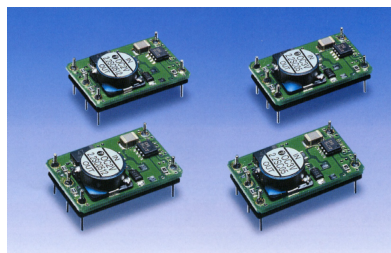




OC1-SC1224



FEATURES:

- **Non-isolated DC/DC**
- Adjustable Output Voltage (OC2V, OC3V)
- MTBF: Over 1.5 Million Hours
- Remote ON/OFF control for OC1

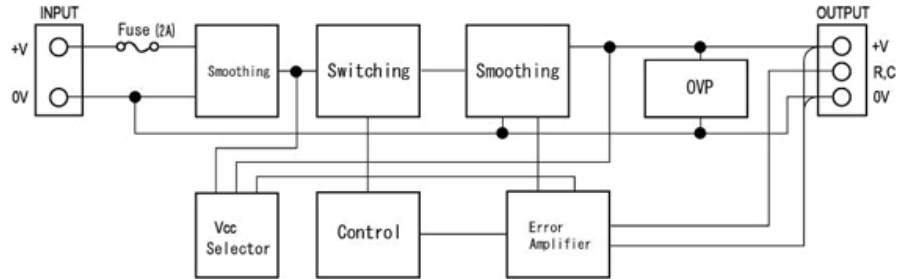


MODEL/CHANNEL		Unit	OC1-3.3 SC1224		OC1-05 SC1224		OC1-06 SC1224	
OUTPUT	Output Voltage	Vdc	3.3		5		6	
	Output Current	A	1.4		1.4		1.4	
	Voltage Tolerance (maximum)	+/-mV	100		150		180	
	Line Regulation	mV	18		25		30	
	Load Regulation	mVp	18		25		30	
	Ripple and Noise	mVp	200					
	Temperature Coefficient *5	-	0.03%/°C(maximum) at temperature -20 to +71°C					
	Recovery Time *3,*7	-	5mS(typical)					
	Rise up time	-	5mS(maximum) at rated input/output					
	Drift	mV	30		40		45	
	Dynamic Line Regulation	mV	500		600		600	
Dynamic Load Regulation	mV	200						
INPUT	Input Voltage	mV	12	24	12	24	12	24
	Input Range	mV	10.2 to 32					
	at no load (typical)	mA	5	5	5	3	5	3
	at full load (typical)	mA	814	416	693	355	814	416
	Input Current; 5V Op Model	A	0.2	0.5	0.2	0.6	0.24	1.15
	Line Back Noise	mVp			1	1	1	1
	Efficiency (typical) *1	%	78	75	84	82	86	84
Protection	Over Current Protection	A	Current Limiting with automatic recovery					
	Overvoltage Protection	-	6		6		7.5	
	≥ 110% Rated Output Current	A	1.54					
	Remote Control	-	Turn on by inputting voltage(4.5 to 56V) between "RC" pin and "0V" pin. Put a 5k ohm resistor between "+ in" pin and "RC" pin when remote on/off is not used					
Environment	Operating Temperature	°C	-20 to +71°C					
	(derating)	-	2%/°C(50°C to 71°C) (out of warranty ≥ 71°C)					
	Operating Humidity	%	20-90%/RH(non-condensing)					
	Storage Temperature	°C	-20 to +85°C					
	Storage Humidity	-	20 to 90%/RH(non-condensing)					
	Vibration	-	5-10Hz: 10mm double amplitude, 10-55Hz: 2G, 3 minutes period for 30 minutes each along X,Y,Z axes(non-operating)					
	Cooling	-	Convection					
Shock Test	-	30G						
Dimension	Weight	mm/g	21.4Lx32Wx10H open board/8g					

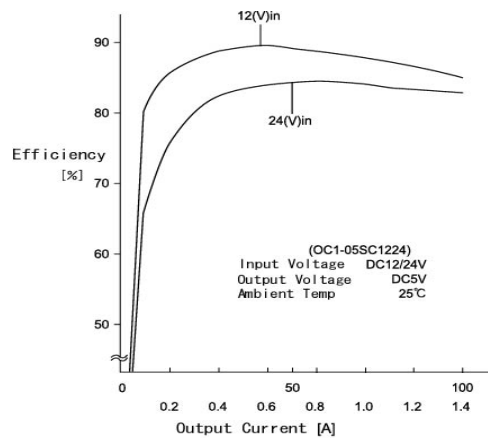




Block Diagram

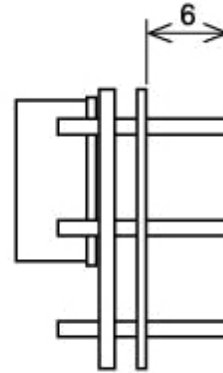
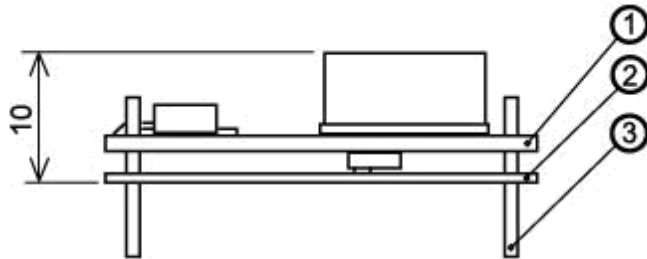
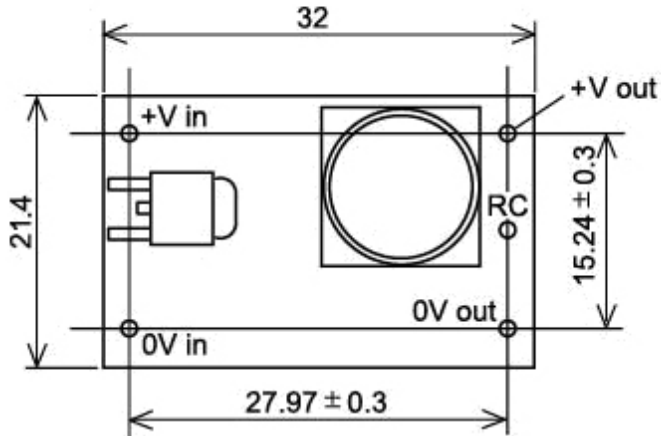


Temperature Derating Curve





Dimension Diagram (mm)



Turn on by inputting voltage (4.5 to 56V) between "RC" pin and "0V" pin. Put a 5k ohm resistor between "+ in" pin and "RC" pin when remote on/off is not used

- ① Double-sided PCB FR4t=1.0
- ② t=0.5 Insulator UL94V0
- ③ 1.0DIA PIN Material:BsB 2700 1/2H

Solder Plating

*Tolerance ± 0.5

