

1.5WATT DC-DC CONVERTER

OEJ- SC / WC 1224
SINGLE/ DUAL CHANNEL

Specifications OEJ**SC/WC1224 1.5WATTS/SINGLE/2 OUTPUT		Model									
		OEJ05SC1224	OEJ12SC1224	OEJ15SC1224	OEJ24SC1224	OEJ22WC1224	OEJ23WC1224				
Input Characteristic											
Input Voltage DC[V]		12	24	12	24	12	24	12	24	12	24
Input Range DC[V]											8.0-32
Input Current [A]											Not specified
Input Range											
at no load [mA](typical)		9	12	11	13	12	15	13	16	14	17
at full load[mA](typical)		160	85	164	88	154	83	157	84	160	90
Line Back Noise [mVp-p](typical)		250	250	250	250	250	250	250	250	250	250
Efficiency [%] (typical) *1		78	73	79	74	81	75	83	77	77	72
Output Voltage [V]			5		12		15		24	+12	-12
Output Current [A]			0.3		0.13		0.10		0.065	0.065	0.050
Voltage Tolerance +/-[mV](maximum) *2		150		360		450		720		360	450
Ripple and Noise [mVp-p](maximum) *3								100			
Regulation											
a.Static Line Regulation [mV](maximum)		25		60		75		120		60	60
b.Dynamic Line Regulation +/-[mV](maximum) *4		250		250		250		300		250	250
c.Static Load Regulation +/-[mV](maximum) *5		25		60		75		120		60	60
+/-[mV](maximum) *6										±600	±600
d.Temperature Coefficient *7								0.03%/ $^{\circ}$ C(maximum)			
e.Drift[mV](maximum) *8		45		75		90		135		75	75
f.Dynamic Load Regulation +/-[mV](maximum) *9		250		350		450		600		600	750
g.Recovery Time *4,*9								20mS(maximum)			
Rise up time								10mS(maximum) at rated input/output			
Hold up time								Not specified			
Functions											
Overcurrent Protection		Current Limiting with automatic recovery at discontinuous short circuit conditions									
>=110% of Rated Output Current [A]		0.33	0.143	0.11	0.0715	0.0715	0.0715	0.055	0.055		
Oversupply Protection								Not available			
Remote Sense								Not available			
Trimming of output voltage[mV]								Not available			
Input Fuse								Installed[2A]			
Environmental											
Operating Temperature								-20 to 71 $^{\circ}$ C			
(derating)								3.5%/ $^{\circ}$ C(50 $^{\circ}$ C to 71 $^{\circ}$ C) (out of warranty >=50 $^{\circ}$ C at input above 63V)			
Operating Humidity								20-90%/RH(non-condensing)			
Storage Temperature								-20 to +85 $^{\circ}$ C			
Storage Humidity								20 to 90%/RH(non-condensing)			
Withstanding Voltage								Primary-Secondary AC500V for 1minute			
Isolation Resistance								Primary-Secondary 50MW(minimum) by DC500V insulation tester			
Capacitance(input-output) [pF](typical)								2200			
Vibration								5-10Hz:10mm double amplitude,10-55Hz:2G,20minutes' period for 60minutes each along X,Y,Z axes(non-operating)			
Shock								30G			
Cooling								Convection			
Weight (typical)								open board type:5g			

*1 at 25 $^{\circ}$ C and rated input/output

*2 OEJ**WC1224 satisfies the above-mentioned specifications at the same load conditions on both outputs

*3 measured by a probe at the output connector at a 0 to 100MHz bandwidth

*4 when input voltage changed from 8V to 32V rapidly at rated output

*5 when output current changed from 0mA to rated current at rated input OEJ**WC1224 satisfies the above-mentioned specifications at the same load conditions

*6 when output current changed from minimum rated current to rated current keeping the current of the other output within rated current at rated input

*7 at -20 to +71 $^{\circ}$ C

*8 for 7hours from 1hour after switch-on at 25 $^{\circ}$ C and rated input/output

*9 when output current changed from 25% of rated current to 75% rapidly at rated input

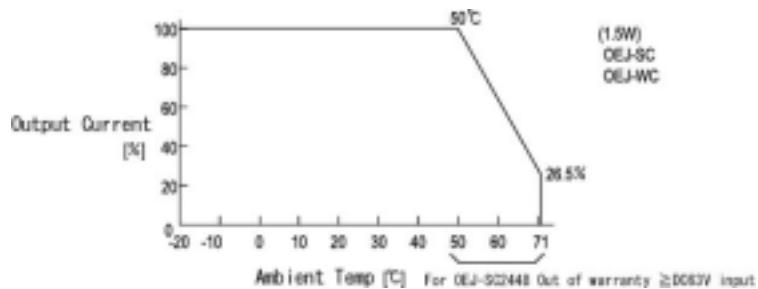


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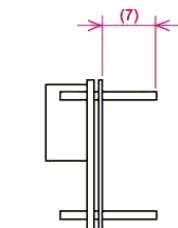
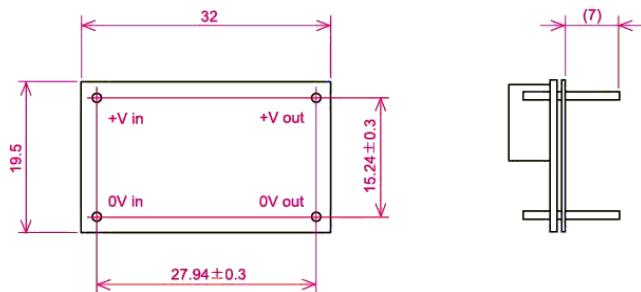
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DERATING CURVE OEJ-SC/WC



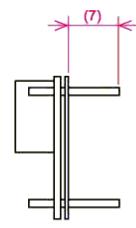
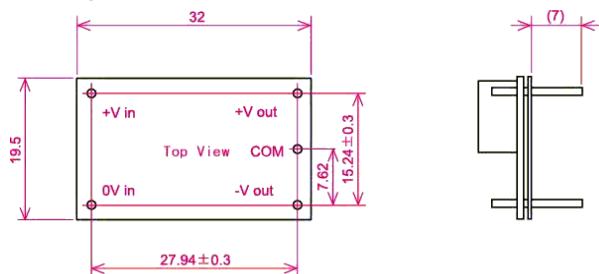
DIMENSION DIAGRAM

OEJ-SC:



- ① 1.0DIA PIN Material:BsB 2700 1/2H
Copper Plating 1~3μm
Solder Plating 3~8μm
- ② Double-sided PCB FR4t=1.0
- ③ t=0.5 Insulator V0
* Tolerance ±0.5

OEJ-WC:



- ① 1.0DIA PIN Material:BsB 2700 1/2H
Copper Plating 1~3μm
Solder Plating 3~8μm
- ② Double-sided PCB FR4t=1.0
- ③ t=0.5 Insulator V0
* Tolerance ±0.5


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