

1.5 WATT DC-DC CONVERTER

OEJ- SC / WC 0512 SINGLE/ DUAL CHANNEL

| Specifications OEJ**SC/WC0512 1.5WATTS/SINGLE/2 OUTPUT | Model | | | | | | | | | | | |
|--|---|-------|-------------|--------|-------------|--------|-------------|-------|-------------|-----|-------------|-----|
| | OEJ05SC0512 | | OEJ12SC0512 | | OEJ15SC0512 | | OEJ24SC0512 | | OEJ22WC0512 | | OEJ23WC0512 | |
| Input Characteristic | | | | | | | | | | | | |
| Input Voltage DC[V] | 5 | 12 | 5 | 12 | 5 | 12 | 5 | 12 | 5 | 12 | 5 | 12 |
| Input Range DC[V] | 4.5-16 | | | | | | | | | | | |
| Input Current [A] | Not specified | | | | | | | | | | | |
| Input Range | | | | | | | | | | | | |
| at no load [mA](typical) | 18 | 19 | 21 | 21 | 23 | 23 | 26 | 28 | 27 | 28 | 29 | 32 |
| at full load[mA](typical) | 416 | 171 | 427 | 176 | 411 | 166 | 405 | 168 | 439 | 178 | 410 | 171 |
| Line Back Noise [mVp-p](typical) | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 |
| Efficiency [%] (typical) *1 | 72 | 73 | 73 | 74 | 73 | 75 | 77 | 77 | 71 | 73 | 73 | 73 |
| Output Voltage [V] | 5 | 12 | 15 | 24 | 12 | -12 | 15 | -15 | | | | |
| Output Current [A] | 0.3 | 0.13 | 0.1 | 0.065 | 0.065 | 0.05 | | | | | | |
| Voltage Tolerance +/-[mV](maximum) | 150 | 360 | 450 | 720 | 360 | 450 | | | | | | |
| Ripple and Noise [mVp-p](maximum) | 100 | | | | | | | | | | | |
| Regulation | | | | | | | | | | | | |
| a.Static Line Regulation [mV](maximum) | 25 | 60 | 75 | 120 | 60 | 60 | 75 | 75 | | | | |
| b.Dynamic Line Regulation +/-[mV](maximum) | 250 | 250 | 250 | 300 | 250 | 250 | 250 | 250 | | | | |
| c.Static Load Regulation +/-[mV](maximum) | 25 | 60 | 75 | 120 | 60 | 60 | 75 | 75 | | | | |
| +/-[mV](maximum) *6 | | | | | 600 | 600 | 750 | 750 | | | | |
| d.Temperature Coefficient *7 | 0.03%/oC(maximum) | | | | | | | | | | | |
| e.Drift[mV](maximum) *8 | 45 | 75 | 90 | 135 | 75 | 75 | 90 | 90 | | | | |
| f.Dynamic Load Regulation +/-[mV](maximum) | 250 | 350 | 450 | 600 | 600 | 600 | 750 | 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 | | | | |
| Overvoltage Protection | Not available | | | | | | | | | | | |
| Remote Sense | Not available | | | | | | | | | | | |
| Trimming of output voltage[mV] | Not available | | | | | | | | | | | |
| Input Fuse | Installed[2A] | | | | | | | | | | | |
| Environmental | | | | | | | | | | | | |
| Operating Temperature (derating) | -20 to 71oC 3.5%/oC (50oC to 71oC) (out of warranty>=50oC at input above63V) | | | | | | | | | | | |
| Operating Humidity | 20-90%/RH(non-condensing) | | | | | | | | | | | |
| Storage Temperature | -20 to +85oC | | | | | | | | | | | |
| 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-operati | | | | | | | | | | | |
| Shock | 30G | | | | | | | | | | | |
| Cooling | Convection | | | | | | | | | | | |
| Weight (typical) | open board type:5g | | | | | | | | | | | |

*1 at 25 °C and rated input/output

*2 OEJ**WC0512 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 4.5V to 16V rapidly at rated output

*5 when output current changed from 0mA to rated current at rated input

OEJ**WC0512 satisfies the above-mentioned specifications at the same load conditions on both outputs

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

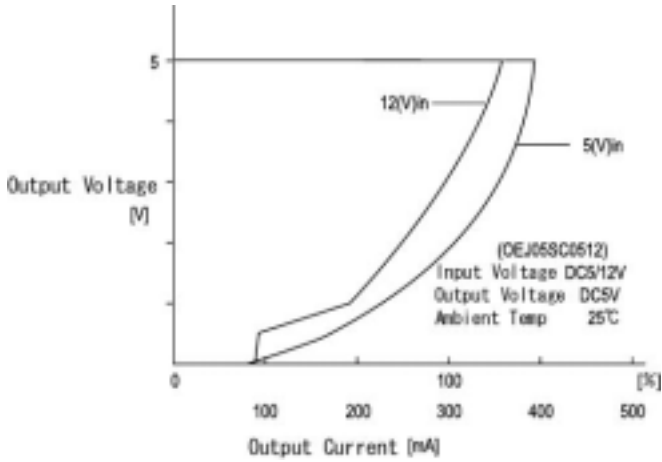
*7 at -20 to +71 °C

*8 for 7hours from 1hour after switch-on at 25 °C and rated input/output

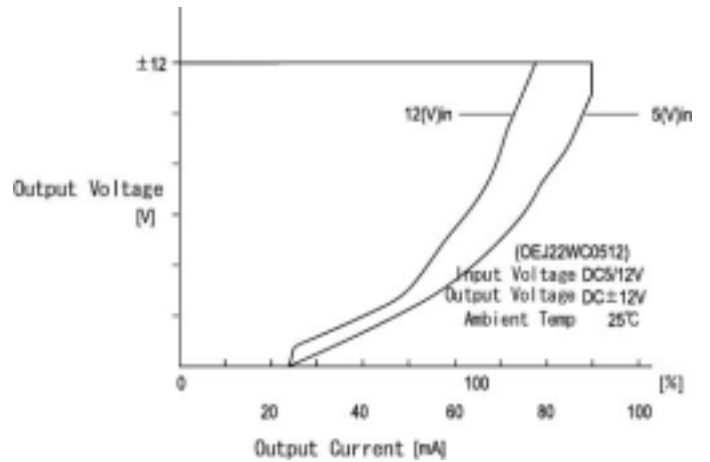
*9 when output current changed from 25% of rated current to 75% rapidly at rated input

OCP CURVES :

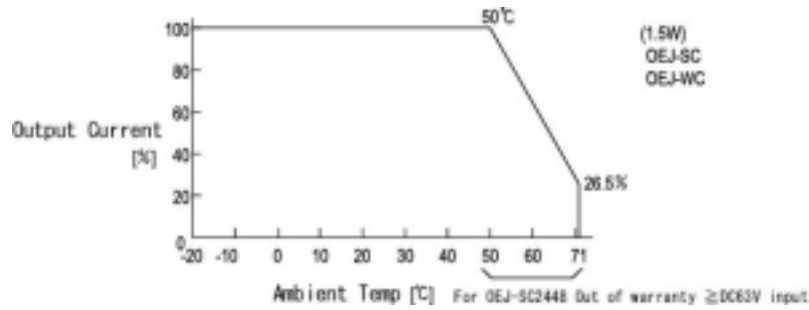
OEJ-SC:



OEJ-WC:

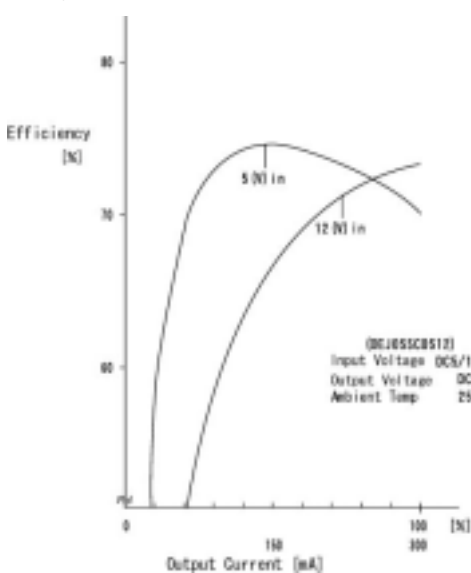


DERATING CURVE OEJ-SC/WC

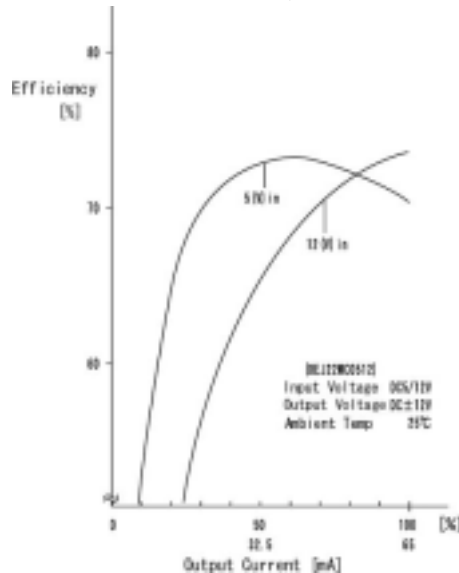


EFFICIENCY CURVE

OEJ-SC:

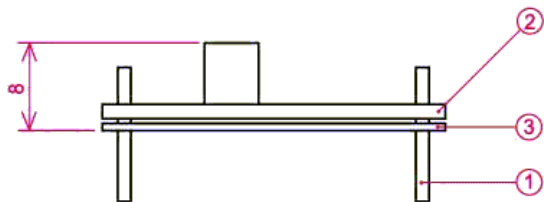
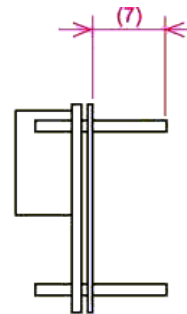
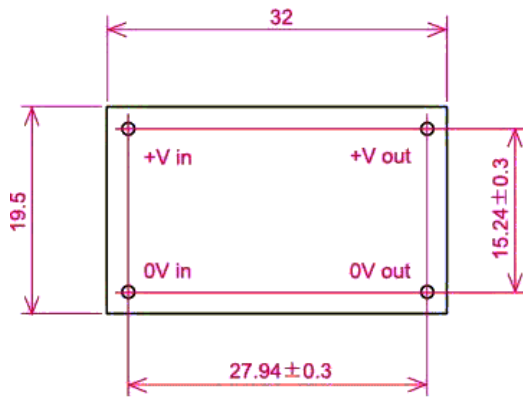


OEJ-WC:



DIMENSION DIAGRAM

OEJ-SC:



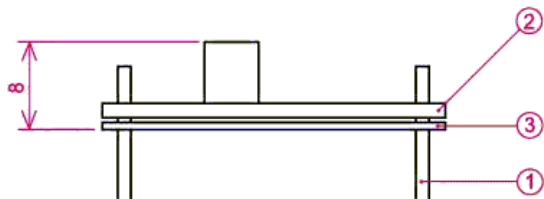
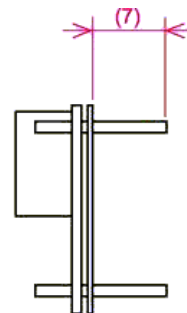
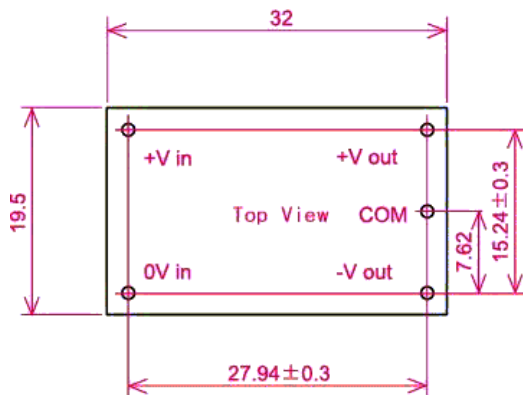
- ① 1.0DIA PIN Material:BsB 2700 1/2H
Copper Plating 1~3 μ m
Solder Plating 3~8 μ m

- ② Double-sided PCB FR4t=1.0

- ③ t=0.5 Insulator V0

* Tolerance ± 0.5

OEJ-WC:



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* Tolerance ± 0.5



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- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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