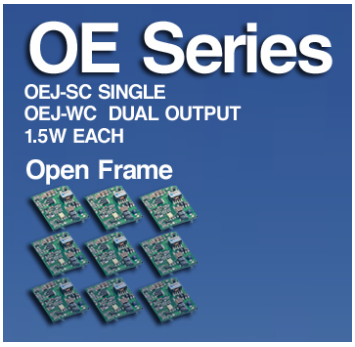
OEJ-SC/WC — 1.5W Open Frame



FEATURES

- Compatibility type of PIN in the power supply unit market
- Realized wide range input(Ultra wide input)
- **Isolated Power Supply**

RoHS

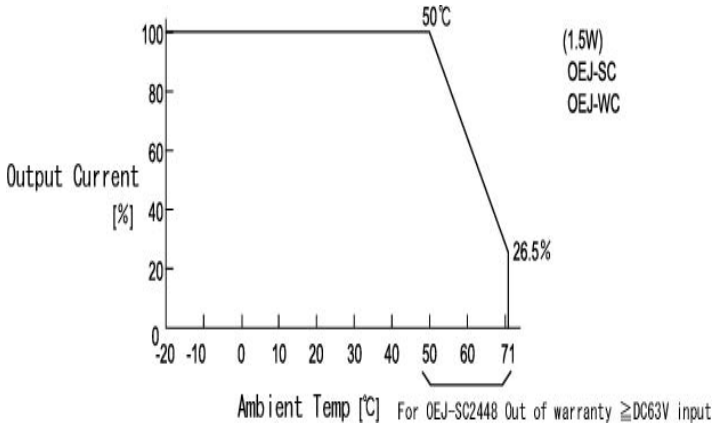
	MODEL/CHANNEL	Unit	OEJ05SC	OEJ12SC	OEJ15SC	OEJ24SC	OEJ22WC	OEJ23WC
OUTPUT	Output Voltage	Vdc	5	12	15	24	±12	±15
	Output Current	A	0.3	0.13	0.1	0.065	0.065	0.05
	Line Regulation max.	mV	25	60	75	120	60	75
	Load Regulation max.	mV	25	60	75	120	60	75
	Dynamic Line	mV	250	250	250	300	250	250
	Dynamic Load	mV	250	350	450	600	600	750
	Voltage Tolerance	mV	150	360	450	720	360	450
	Drift	mV	45	75	90	135	75	90
	Ripple and Noise(max.)	mVp	100					
	Temperature Coefficient	-	0.03%/°C(maximum)					
	Recovery Time	mS	20mS(maximum)					
	Rise Up Time	mS	10mS(maximum) at rated input/output					

	MODEL/CHANNEL	Unit	OEJ05 SC0512		OEJ12 SC0512		OEJ15 SC0512		OEJ24 SC0512		OEJ22 WC0512		OEJ23 WC0512	
INPUT	Input Voltage	Vac	5	12	5	12	5	12	5	12	5	12	5	12
	No Load	mA	18	19	21	21	23	23	26	28	27	28	29	32
	Full Load	mA	416	171	427	176	411	166	405	168	439	178	410	171
	Line Back Noise	mVp	200	100	200	100	200	100	200	100	200	100	200	100
	Efficiency (typical)	%	72	73	73	74	73	75	77	77	71	73	73	73
	Input Voltage Range	Vdc	4.5-16											

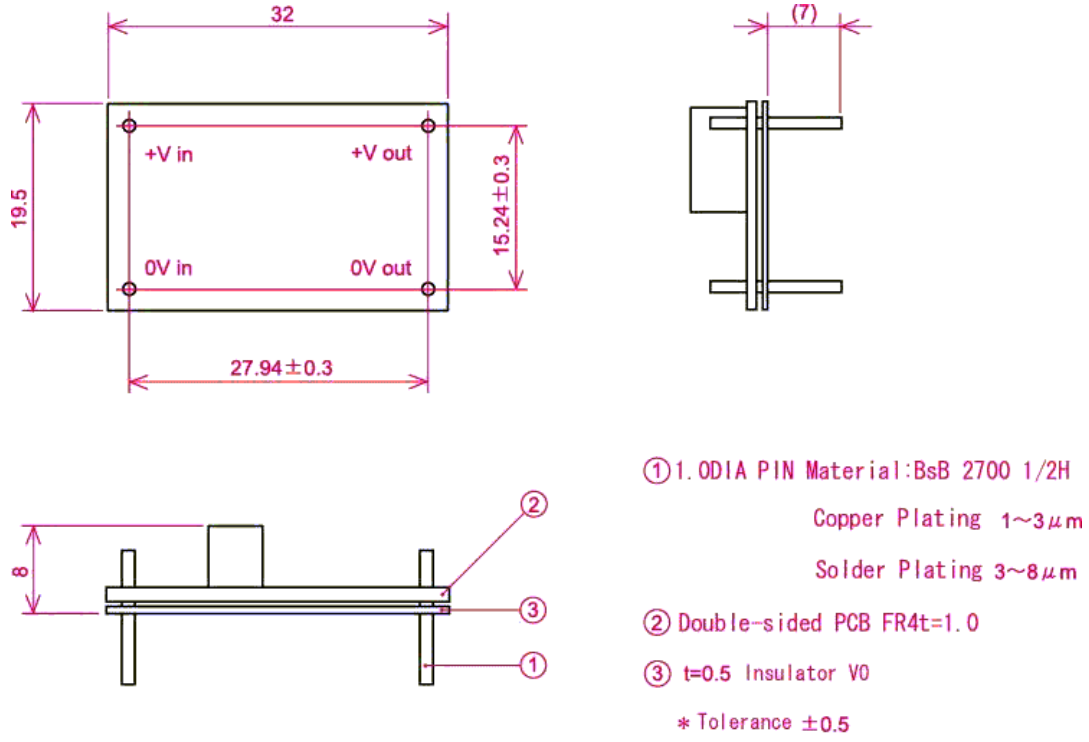
MODEL/CHANNEL		Unit	OEJ05 SC1224		OEJ12 SC1224		OEJ15 SC1224		OEJ24 SC1224		OEJ22 WC1224		OEJ23 WC1224	
INPUT	Input Voltage	Vdc	12	24	12	24	12	24	12	24	12	24	12	24
	Input Range No Load	mA	9	12	11	13	12	15	13	16	14	17	16	19
	Input Range Full Load	mA	160	85	164	88	154	83	157	84	160	90	158	86
	Efficiency (typical)	%	78	73	79	74	81	75	83	77	77	72	79	73
	Line Back Noise	mVp	250											
	Input Voltage Range	Vdc	8-32											

MODEL/CHANNEL		Unit	OEJ05 SC2448		OEJ12 SC2448		OEJ15 SC2448		OEJ24 SC2448		OEJ22 WC2448		OEJ23 WC2448	
INPUT	Input Voltage	Vdc	24	48	24	48	24	48	24	48	24	48	24	48
	Input Range No Load	mA	5	5	6	7	7	8	7	8	7	8	9	10
	Input Range Full Load	mA	82	43.4	83	44	79	42.2	79	43.3	85	45.1	80	43.4
	Efficiency (typical)	%	76	72	78	74	79	74	82	75	76	72	78	72
	Line Back Noise	mVp	400											
	Input Voltage Range	Vdc	18-72											
Environment	Operating Temperature	°C	-20 to 71°C											
	(derating)	°C	3.5%/°C(50°C to 71°C) (out of warranty >=50°C at input above 63V)											
	Operating Humidity	%	20-90%/RH(non-condensing)											
	Storage Temperature	°C	-20 to +85°C											
	Storage Humidity	%	20 to 90%/RH(non-condensing)											
	Withstanding Voltage	-	Primary-Secondary AC500V for 1minute											
	Isolation Voltage	-	Primary-Secondary 50MW(minimum) by DC500V insulation tester											
	Shock	-	30G											
	Cooling	-	Convection											
	Vibration	-	5-10Hz: 10mm double amplitude,10-55Hz: 2G, 20 minutes period for 60 minutes each along X,Y,Z axes(non-operating)											
Function	≥110% Rated Output Current	A	0.33		0.143		0.11		0.0715		0.0715		0.055	
	Overcurrent Protection	-	Current Limiting with automatic recovery at discontinuous short circuit conditions											
	Input Fuse	-	Installed 2A											
	Capacitence	pF	2200											
Dimension	Size(WxHxD) / Weight	mm/g	open board type: 5g											

Derating Diagram — 1.5W Open Frame



Dimension Diagram (mm) — 1.5W Open Frame



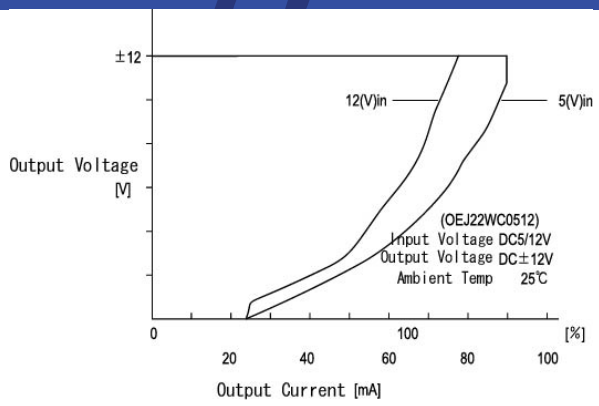
① 1.0DIA PIN Material:BsB 2700 1/2H
Copper Plating 1~3μm
Solder Plating 3~8μm

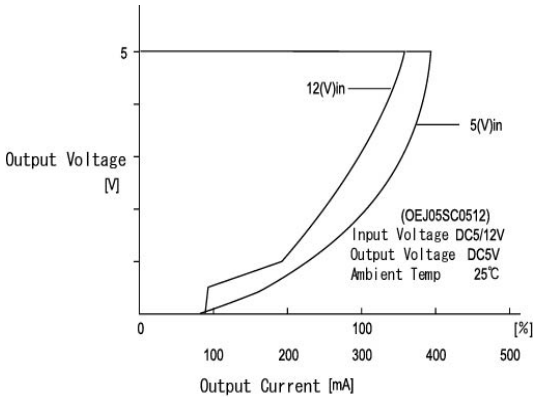
② Double-sided PCB FR4t=1.0

③ t=0.5 Insulator V0

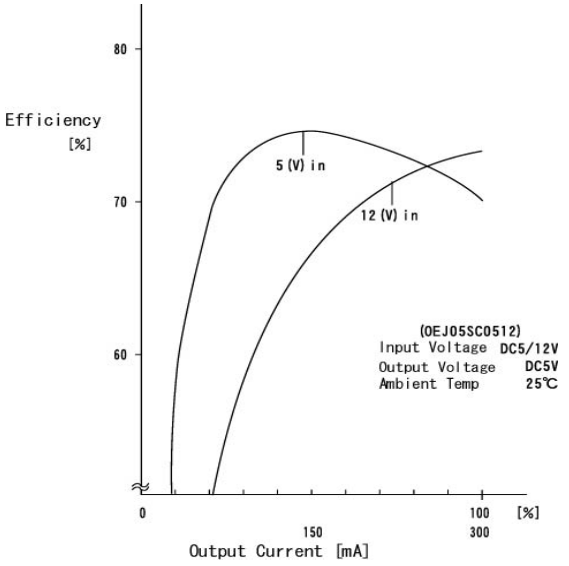
＊Tolerance ±0.5

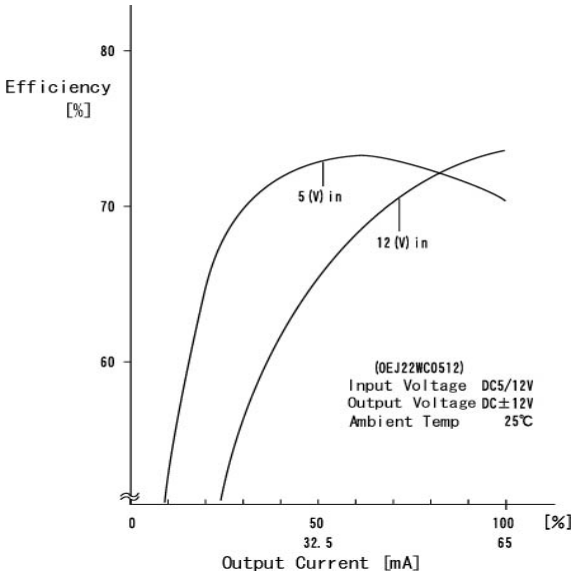
OCP Curves — 1.5W Open Frame





Efficiency Curve — 1.5W Open Frame





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