

DATA SHEET

DESCRIPTION	SUBMOUNT
APPLICATION	Laser Diode Package, Optical Module Power LED
ISSUED DATE	2023-01-28



Opto Device Technology

Submount Specification

No.	Device Name	Substrate Material	Chip Specification			Remarks
			Chip Size	Solder Size	Thickness	
			(mm×mm) (mil×mil)	(mm×mm) (mil×mil)	(μ m) (mil)	
1	OSS-1051050	Silicon	0.475*0.465 (18.70*18.31)	0.250*0.445 (9.84*17.52)	250 (9.84)	AuSn:2 μ m
2	OSS-1051050-03	Silicon	0.475*0.465 (18.70*18.31)	0.300*0.445 (11.81*17.52)	250 (9.84)	AuSn:1.5 μ m
3	OSS-1051050-04	Silicon	0.475*0.465 (18.70*18.31)	0.300*0.445 (11.81*17.52)	225 (8.86)	AuSn:1.5 μ m
4	OSS-1055	Silicon	0.63*0.46 (24.8*18.11)	0.35*0.25 (13.78*9.84)	220, 400 (8.66, 15.75)	
5	OSS-2055	Silicon	0.63*0.46 (24.8*18.11)	0.35*0.25 (13.78*9.84)	220 (8.66)	
6	OSC-1055	SiC	0.60*0.43 (23.62*16.93)	0.35*0.25 (13.78*9.84)	220, 400 (8.66, 15.75)	
7	OSA-1055	AlN	0.60*0.43 (23.62*16.93)	0.35*0.25 (13.78*9.84)	220, 400 (8.66, 15.75)	
8	OSS-2062	Silicon	0.75*0.50 (29.53*19.69)	0.75*0.50 (29.53*19.69)	220 (8.66)	
9	OSS-2062-Au	Silicon	0.75*0.50 (29.53*19.69)	0.75*0.50 (29.53*19.69)	220 (8.66)	
10	OSS-1060060	Silicon	0.60*0.60 (23.62*23.62)	0.60*0.60 (23.62*23.62)	400 (15.75)	
11	OSS-1065065	Silicon	0.65*0.65 (25.59*25.59)	0.65*0.65 (25.59*25.59)	400 (15.75)	
12	OSA-1066	AlN	0.75*0.45 (29.53*17.72)	0.45*0.45 (17.72*17.72)	220, 320, 400 (8.66, 12.60, 15.75)	
13	OSS-2069	Silicon	0.67*0.67 (26.38*26.38)	0.65*0.65 (25.59*25.59)	220 (8.66)	AuSn:3 μ m
14	OSS-1073	Silicon	0.77*0.57 (30.31*22.44)	0.30*0.52 (11.81*20.47)	220, 400 (8.66, 15.75)	
15	OSS-1075	Silicon	0.93*0.53 (36.61*20.87)	0.45*0.48 (17.72*18.90)	220, 400 (8.66, 15.75)	
16	OSS-2075	Silicon	0.93*0.53 (36.61*20.87)	0.45*0.48 (17.72*18.90)	220 (8.66)	
17	OSC-1075	SiC	0.90*0.50 (35.43*19.69)	0.45*0.48 (17.72*18.90)	220, 400 (8.66, 15.75)	
18	OSA-1075	AlN	0.90*0.50 (35.43*19.69)	0.45*0.48 (17.72*18.90)	220, 400 (8.66, 15.75)	
19	OSS-1081	Silicon	0.93*0.63 (36.61*24.80)	0.12*0.27 (4.72*10.63)	220, 400 (8.66, 15.75)	
20	OSC-1081	SiC	0.90*0.60 (35.43*23.62)	0.12*0.27 (4.72*10.63)	220, 400 (8.66, 15.75)	
21	OSA-1081	AlN	0.90*0.60 (35.43*23.62)	0.12*0.27 (4.72*10.63)	220, 400 (8.66, 15.75)	
22	OSS-1082	Silicon	0.93*0.63 (36.61*24.80)	0.205*0.45 (8.07*17.72)	220, 400 (8.66, 15.75)	
23	OSS-2082	Silicon	0.93*0.63 (36.61*24.80)	0.205*0.45 (8.07*17.72)	220 (8.66)	
24	OSC-1082	SiC	0.90*0.60 (35.43*23.62)	0.205*0.45 (8.07*17.72)	220, 400 (8.66, 15.75)	
25	OSA-1082	AlN	0.90*0.60 (35.43*23.62)	0.205*0.45 (8.07*17.72)	220, 400 (8.66, 15.75)	
26	OSC-1093-650MM	SiC	0.90*0.60 (35.43*23.62)	0.30*0.42 (11.81*16.54)	220, 400 (8.66, 15.75)	
27	OSS-1093	Silicon	0.93*0.63 (36.61*24.80)	0.50*0.56 (19.69*22.05)	220, 400 (8.66, 15.75)	

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			Chip Size	Solder Size	Thickness	
			(mm×mm) (mil×mil)	(mm×mm) (mil×mil)	(μ m) (mil)	
28	OSS-2093	Silicon	0.93*0.63 (36.61*24.80)	0.50*0.56 (19.69*22.05)	220, 400 (8.66, 15.75)	
29	OSC-1093	SiC	0.90*0.60 (35.43*23.62)	0.50*0.56 (19.69*22.05)	220, 400 (8.66, 15.75)	
30	OSA-1093	AlN	0.90*0.60 (35.43*23.62)	0.50*0.56 (19.69*22.05)	220 (8.66)	
31	OSS-2094064	Silicon	0.94*0.64 (37.01*25.20)	0.50*0.58 (19.69*22.83)	220, 400 (8.66, 15.75)	
32	OSS-1096	Silicon	0.93*0.93 (36.61*36.61)	0.50*0.86 (19.69*33.86)	220, 400 (8.66, 15.75)	
33	OSS-2096	Silicon	0.93*0.93 (36.61*36.61)	0.50*0.86 (19.69*33.86)	220 (8.66)	
34	OSC-1096	SiC	0.90*0.90 (35.43*35.43)	0.50*0.86 (19.69*33.86)	220, 400 (8.66, 15.75)	
35	OSA-1096	AlN	0.90*0.90 (35.43*35.43)	0.50*0.86 (19.69*33.86)	220, 400 (8.66, 15.75)	
36	OSS-1144	Silicon	0.93*1.88 (36.61*74.02)	0.15*1.79 (5.91*70.47)	220, 400 (8.66, 15.75)	
37	OSC-1144	SiC	0.90*1.85 (35.43*72.83)	0.15*1.79 (5.91*70.47)	220, 400 (8.66, 15.75)	
38	OSA-1144	AlN	0.90*1.85 (35.43*72.83)	0.15*1.79 (5.91*70.47)	220, 400 (8.66, 15.75)	
39	OSZ-L2064	Silicon	0.57*0.37 (22.44*14.57)	0.39*0.12 (15.35*4.72) 0.34*0.12 (13.39*4.72)	130 (5.12)	
40	OSZ-L2055	Silicon	0.61*0.37 (24.02*14.57)	0.37*0.135 (14.57*5.31) 0.325*0.135 (12.80*5.31)	130 (5.12)	
41	OSS-2069-01	Silicon	0.67*0.67 (26.38*26.38)	0.27*0.65 (10.63*25.59)	220 (8.66)	
42	OSS-2069-02	Silicon	0.67*0.67 (26.38*26.38)	0.27*0.65 (10.63*25.59)	220 (8.66)	
43	OSS-2084104-01	Silicon	0.82*1.02 (32.28*40.16)	0.30*1.00 (11.81*39.37)	200 (7.87)	
44	OSC-1108053	SiC	1.00*0.45 (39.37*17.72)	0.34*0.34 (13.39*13.39)	220 (8.66)	
45	OSS-1084064	Silicon	0.82*0.62 (32.28*24.41)	0.33*0.12 (12.99*4.72)	290 (11.42)	AuSn:2 μ m
46	OSS-2074039	Silicon	0.72*0.37 (28.35*14.57)	0.50*0.33 (19.69*12.99)	220 (8.66)	AuSn:3.2 μ m
47	OSS-2054064-Pt	Silicon	0.52*0.62 (20.47*24.41)	0.25*0.60 (9.84*23.62)	220 (8.66)	Pt : 0.2 μ m AuSn : 2.5 μ m
48	OSS-2074054-Pt	Silicon	0.7*0.50 (27.56*19.69)	0.70*0.50 (27.56*19.69)	260 (10.24)	Pt : 0.2 μ m AuSn : 3.0 μ m
49	OSS-1095030	Silicon	0.92*0.27 (36.22*10.63)	0.15× 0.20 (5.91*7.87)	330 (12.99)	Dual Pad AuSn : 3.0 μ m
50	OSS-1045024	Silicon	0.43*0.22 (16.93*8.66)	0.40*0.19 (15.75*7.48)	100 (3.94)	Au Pad
51	OSS-2104	Silicon	1.0*1.0 (39.37*39.37)	0.8*0.8 (31.50*31.50)	300 (11.81)	Al Pad
52	OSS-2104N	Silicon	1.0*1.0 (39.37*39.37)	0.8*0.8 (31.50*31.50)	250 (9.84)	Al Pad
53	OSS-2183093	Silicon	1.74*0.84 (60.5*33.07)	0.8*0.8 (31.50*31.51)	220 (8.66)	