

Compact ASE Source



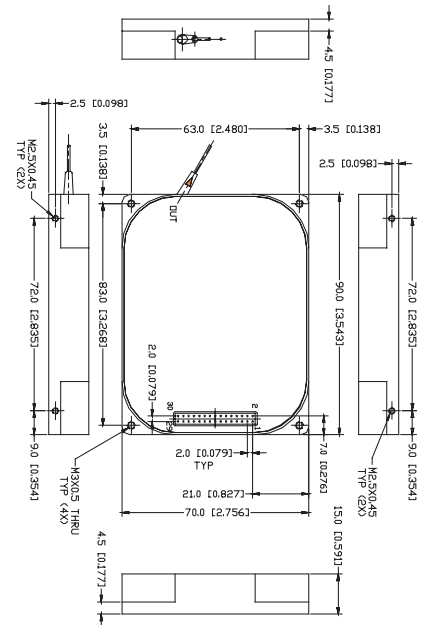
Features/Benefits

- Compact size (70 x 90 x 15mm)
- Low cost
- Standard electronic interface
- Option for flattened spectrum

Applications

- Fiber optic component testing
- Fiber sensor systems
- Fiber gyroscope

Dimensions



Unit: mm(inch)

Optical Specifications

Parameters	Unit	Min.	Typ.	Max.
Operating Wavelength Range	nm	1528	-	1562
Total Output Power	dBm	13 / 15 / 17	-	-
Output Stability ¹	dB	-	-	± 0.05 ³
Lasting Stability ²	dB	-	-	± 0.15 ³
Spectrum Flatness	dB	-	-	10
Optical Return Loss	dB	40	-	-
Power Supply	V	3.1	3.3	3.5
Power Consumption	uncooled	W	-	3
	cooled	W	-	6
Operating Temperature	°C	- 5	-	70
Storage Temperature	°C	- 40	-	85
Fiber Pigtail	-	SMF-28, 900µm buffered		
Dimensions	mm	70 x 90 x 15		

¹ After 30 minute warm-up, within 15 minutes at content temperature.

² After 30 minute warm-up, within 1 hour at content temperature.

³ High stability models are also available upon request.

Electrical PIN Assignment

Pin	Function	Pin	Function
1	+ 3.3V	2	+ 3.3V
3	NC	4	NC
5	GND	6	GND
7	RS-232 Rx	8	RS-232 Tx
9	GND	10	GND
11	NC	12	Reset input, (active low)
13	ASE disable input, (active high)	14	Output power mute input, (active high)
15	Case temperature alarm, (active high)	16	Common alarm, (active low)
17	Pump temperature alarm, (active high)	18	Pump bias alarm, (active high)
19	NC	20	Loss of output alarm, (active high)
21	NC	22	Output power monitor ground
23	NC	24	Output power monitor
25	GND	26	GND
27	NC	28	NC
29	+ 3.3V	30	+ 3.3V

Electrical connection is made via a female 30 PIN connector (2 rows of 15, pin pitch 2.0mm, 0.5x0.5mm), Samtec SMM-115-01-S-D or equivalent.

Ordering Information

E	A	S	E	N				M		0	0		1											
<table border="0"> <tr> <td style="text-align: center;">Output Power</td> <td style="text-align: center;">Electronic Interface</td> <td style="text-align: center;">Pump</td> <td style="text-align: center;">Fiber Length</td> <td style="text-align: center;">Connector</td> </tr> <tr> <td style="text-align: center;">13 = 13dBm 15 = 15dBm 17 = 17dBm</td> <td style="text-align: center;">R= RS-232</td> <td style="text-align: center;">U= uncooled C= cooled</td> <td style="text-align: center;">1= 1.0 ± 0.1m 5= 1.5 ± 0.1m</td> <td style="text-align: center;">0= None 1= FC/UPC 2= FC/APC 3= SC/UPC 4= SC/APC 5= LC/UPC 6= MU/UPC</td> </tr> </table>															Output Power	Electronic Interface	Pump	Fiber Length	Connector	13 = 13dBm 15 = 15dBm 17 = 17dBm	R= RS-232	U= uncooled C= cooled	1= 1.0 ± 0.1m 5= 1.5 ± 0.1m	0= None 1= FC/UPC 2= FC/APC 3= SC/UPC 4= SC/APC 5= LC/UPC 6= MU/UPC
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This product information is subject to change without notice.