

# Data Sheet(Optic analog Module Series)

## ITOM-S2496-2690-DND44 / RRD44

### Electrical Specification

Parameters		Unit	Min	Max	Remark
Optical output power		dBm	2	6	Donor
		dBm	4	8	Remote
Wave length		nm	1540	1560	Donor
		nm	1500	1520	
		nm	1300	1320	Remote
		nm	1520	1540	
Frequency		MHz	2496	2690	DL, UL
RF Gain		dB	0	4	DL
		dB	1	3	UL
Flatness		dB(p-p)		1.2	
VSWR				1.5	S11/S22
ACPR (@fc± 885kHz)		DL	dBc	50	3FA (1.25MHz/1FA)
		UL	dBc	40	
Output noise floor		dBm/Hz	-125	-127	@0dBo Loss
Directivity		dBc	60		
Atten Range(AGC Atten)		dB	0	15	Accuracy ±0.5dB
Alarm		LD	dBm	-5	Normal : High(+5V) TTL
		PD	dBm	-8.5	
Current		9V	mA	1000	Donor
		9V	mA	1000	Remote
Gain Variation		dB	-2	2	
Operating Temperature		0℃ ~ +50℃			
Optic Connector		SC/APC			
RF Connector		SMA (f)/SMB RACK TYPE(LONG)(f)			

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## Pin Map

### 1. Donor

89096-102 10Pin Connector Configurations			
1A	VCC(+9V)	2A	ASK Sync Data In
1B	GND	2B	ID SET1
1C	MCU 232 TXD	2C	ID SET2
1D	MCU 232 RXD	2D	ID SET3
1E	Identification(High/Low)	2E	Down Loading Port

### 2. Remote

SD-MOLEX-15A Connector Configurations			
1	VCC(+9V)	9	Att_DATA
2	GND	10	N.C
3	ASK Sync Data Out	11	N.C
4	FSK EN	12	N.C
5	FSK TXD	13	LD Status(Normal : High)
6	FSK RXD	14	PD Status(Normal : High)
7	Att_EN	15	PD Detection
8	Att_CLK		

- Modem EN : High(+5V) = Alarm, Low (0V) = Normal.
- Modem Frequency : FSK 46MHz(Tx), 36MHz(Rx) /ASK 20MHz
- Data Rate: 38400bps

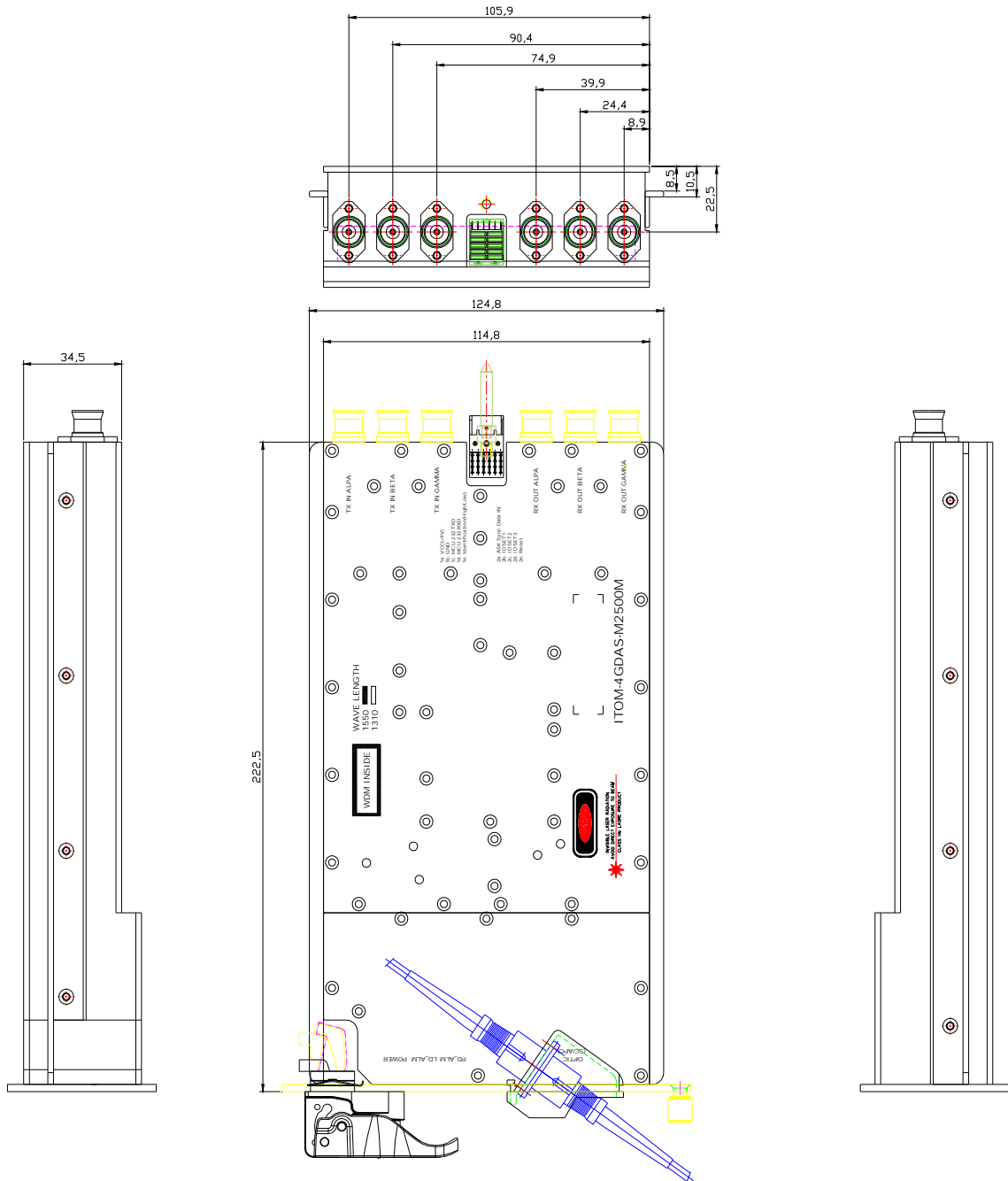
## Absolute Maximum Ratings

Absolute Maximum Rating			
Parameter	Symbol	Rating	Unit
Optical Input Power		8	dBm
RF Input Power		5	dBm
DC Supply Volts		9	V
Operating Temperature		0 ~ +50	℃

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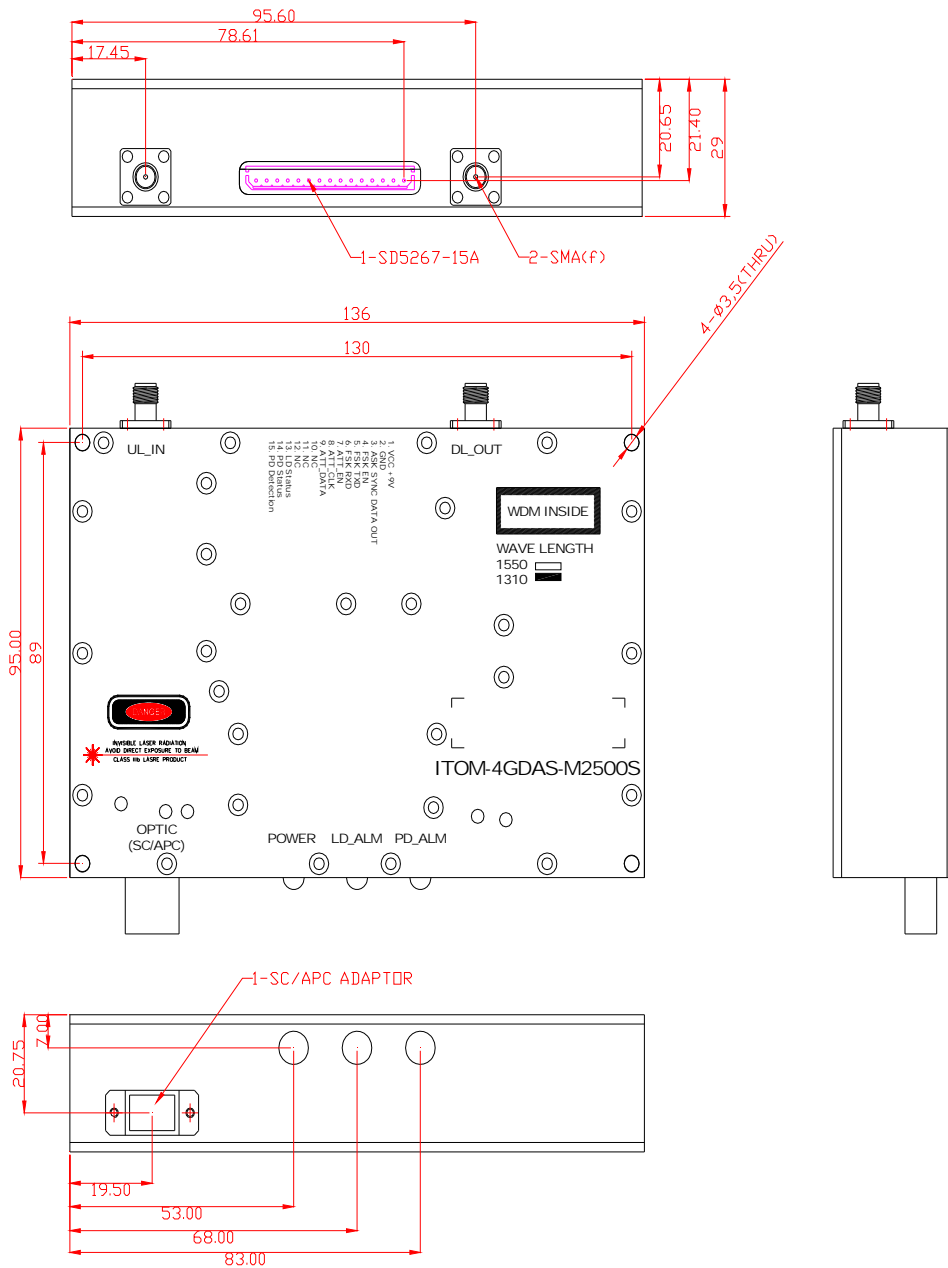
## Mechanical Specification

### 1. Donor



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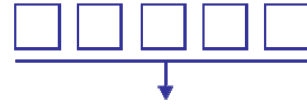
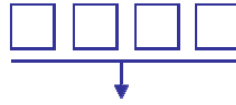
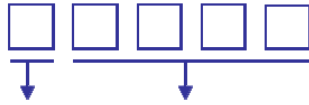
## 2. Remote



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## Ordering Information

ITOM



Model	Start Frequency
S - Single band	0001 - 1MHz
M - Multiband	0002 - 2MHz
B - Broadband	.
T - CATV	.
C - Customized	3000 - 3000MHz

End Frequency
0001 - 1MHz
0002 - 2MHz
.
.
3000 - 3000MHz

Type	LD Type	Optic Connector	Wave length
DN - Donor	F - FP	1 - FC/UPC	1 - 1Wave
RR - Remote	D - DFP	2 - FC/APC	2 - 2Wave
TR - Transmitter		3 - SC/UPC	3 - 3Wave
RE - Receiver		4 - SC/APC	4 - 4Wave
R1 - Remote1		5 - LC/UPC	C - Customized
R2 - Remote2		6 - LC/APC	
R3 - Remote3		C - Customized	

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