

# Data Sheet(Optic analog Module Series)

## ITOM-B0136-2155-DND42 / RRD42

### Electrical Specification

Parameters	Unit	Min	Max	Remark
Optical output power	dBm	-1	1	Donor
	dBm	6	8	Remote
Wave length	nm	1303	1317	Donor
	nm	1543	1557	Remote
RF Gain	dB	28	32	DL
	dB	13	17	UL
Frequency	MHz	136	174	DL
		396	512	
		698	806	
		851	869	
		869	894	
		929	940	
		1930	1995	
	2110	2155		
	MHz	136	174	UL
		396	512	
		698	806	
		806	824	
		824	849	
		896	902	
1850		1915		
1710	1755			
Flatness	dB(p-p)		1	
VSWR			1.5	S11/S22
ACPR	dBc	50dBc/30KHz(Min) @885KHz 53dBc/30KHz(Min) @1.98MHz		CDMA 3FA (9CH FWD)
Output noise floor	dBm/Hz		-127	DL

# Data Sheet(Optic analog Module Series)

		dBm/Hz		-139	UL
Directivity		dBc	60		
ATT Control Range		dB	0	30	
ATT Control Accuracy		0 ~ 20dB : ±0.7dB 20.5~30dB : ±1dB			
Alarm	Donor LD	dBm	-5		Normal : High(+5V) TTL
	Donor PD	dBm	-10		
	Remote LD	dBm	2		
	Remote PD	dBm	-13		
RF Input Detector		dBm	-40	-10	DL
RF Output Detector		dBm	-30	5	UL
Power Monitoring Range	Donor LD	dBm	-6	2	
	Donor PD	dBm	-4	8	
	Remote LD	dBm	2	8	
	Remote PD	dBm	-12	2	
Current	Donor : 6V	mA		1000	
	Remote : 6V	mA		800	
Gain Variation		dB(p-p)		3.5	
Operating Temperature		-20℃ ~ +65℃			
Optic Connector		SC/APC			
RF Connector		SMA Female			

## Pin Map

### 1. Donor

HIF3FC-26PA-2.54DSA Configurations			
1	ATT_EN(DL Common)	14	GND
2	ATT_EN1(UL Common)	15	PD1_FAIL (HIGH(+5V):FAIL / LOW: NORMAL)
3	ATT_EN2(UL1 FINE)	16	PD2_FAIL (HIGH(+5V):FAIL / LOW: NORMAL)
4	ATT_EN3(UL2 FINE)	17	PD3_FAIL (HIGH(+5V):FAIL / LOW: NORMAL)
5	ATT_EN4(UL3 FINE)	18	PD4_FAIL (HIGH(+5V):FAIL / LOW: NORMAL)
6	ATT_EN5(UL4 FINE)	19	LD_FAIL (HIGH(+5V):FAIL / LOW: NORMAL)

# Data Sheet(Optic analog Module Series)

7	ATT_CLK	20	PD1_DET
8	ATT_DATA	21	PD2_DET
9	DL_INPUT_DET	22	PD3_DET
10	UL_OUTPUT_DET	23	PD4_DET
11	FSK_EN	24	LD_DET
12	FSK_TXD	25	VCC
13	FSK_RXD	26	GND

## 2. Remote

SMAW200-10 Configurations			
1	LD_DET	6	GND
2	PD_DET	7	ATT_EN(DL Optic Com)
3	LD_FAIL (HIGH(+5V):FAIL / LOW: NORMAL)	8	ATT_CLK
4	PD_FAIL (HIGH(+5V):FAIL / LOW: NORMAL)	9	ATT_DATA
5	VCC	10	GND

## 3. Remote(Communication)

Molex 5267-4 Configurations	
1	FSK_TXD
2	FSK_RXD
3	FSK_TX_EN
4	GND

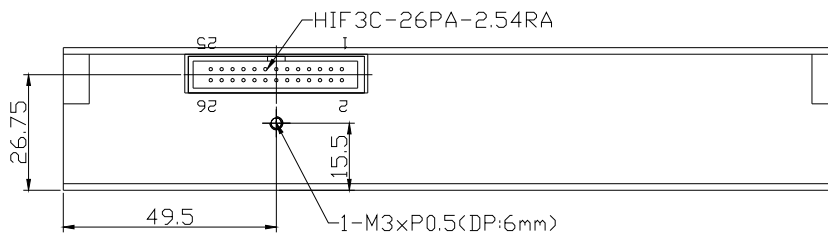
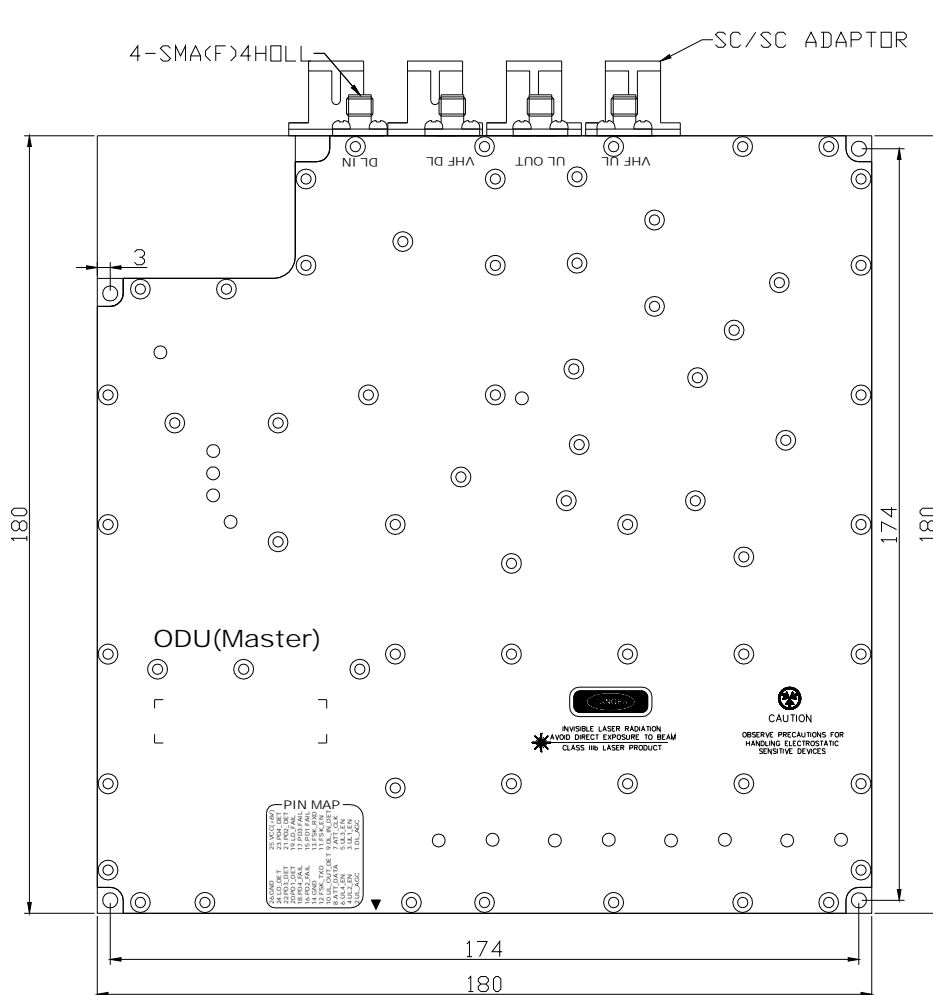
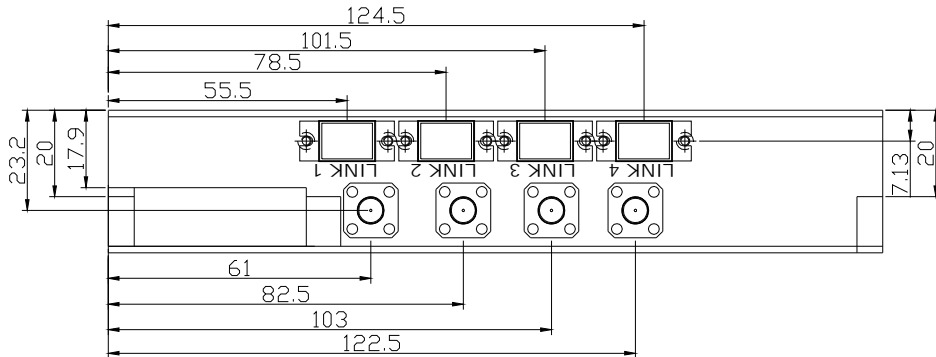
## Absolute Maximum Ratings

Absolute Maximum Rating			
Parameter	Symbol	Rating	Unit
Optical Input Power		8	dBm
RF Input Power		3	dBm
DC Supply Volts		6	V
Operating Temperature		-20 ~ +65	℃

# Data Sheet(Optic analog Module Series)

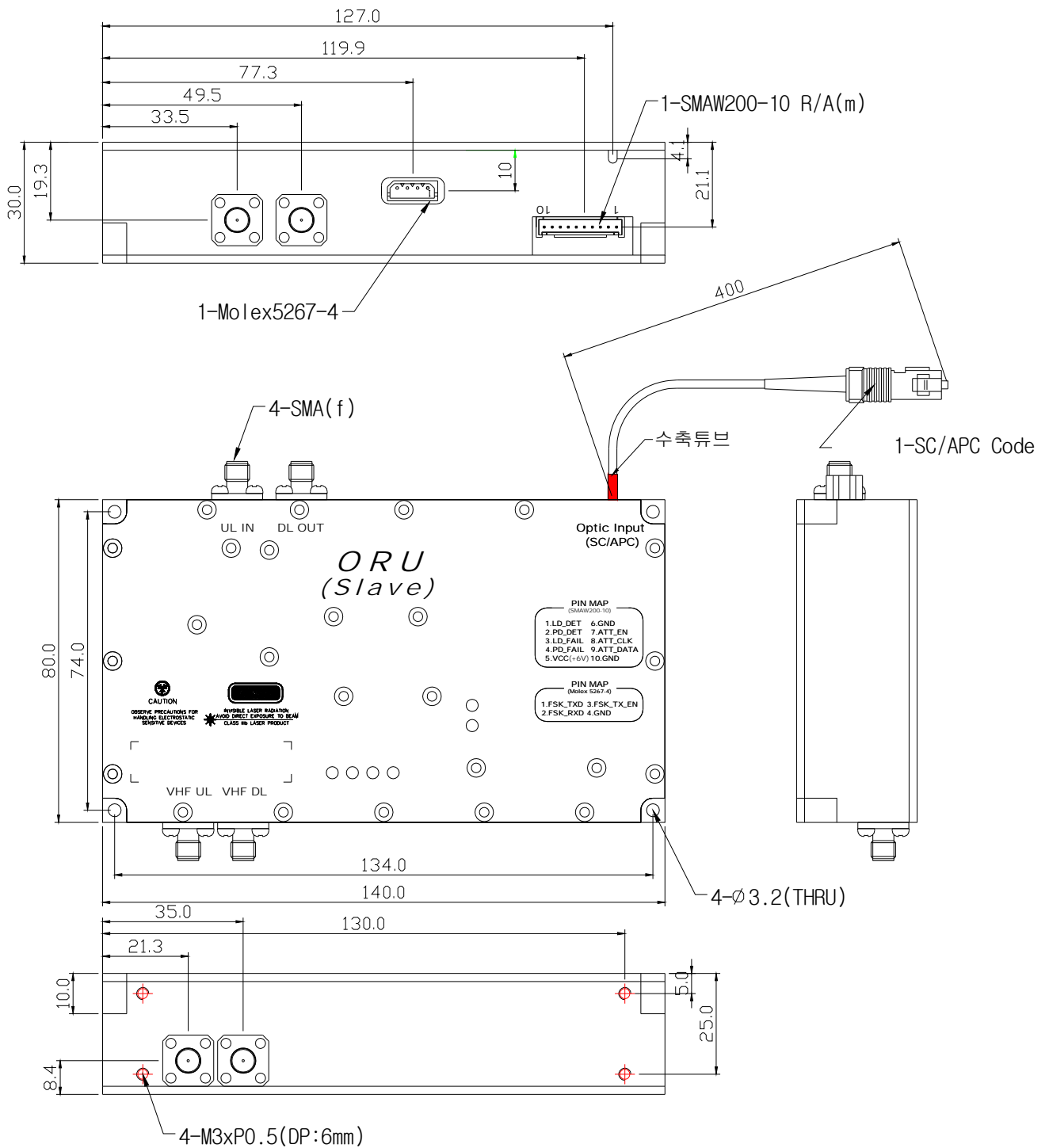
## Mechanical Specification

### 1. Donor



# Data Sheet(Optic analog Module Series)

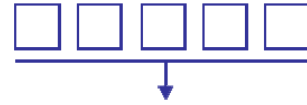
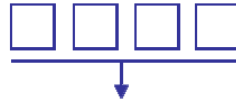
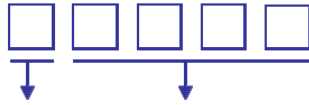
## 2. Remote



# Data Sheet(Optic analog Module Series)

## 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	

## Contact:

Add: # 303, 304 Daelim Plaza, 1027-20, Hogye-dong, Dongan-gu, Anyang-si, Kyunggido, Korea

TEL : +82-31-454-9315

FAX : +82-31-454-9388

E-mail:sales@intecec.com

<http://www.intecec.com>