

Data Sheet(Optic analog Module Series)

ITOM-S0824-0894-DND23 / RRD23

Electrical Specification

Parameters		Unit	Min	Max	Remark
Optical output power		dBm	7	8	Donor (DL)
		dBm	6	8	Remote (UL,DIV)
Wave length		nm	1543	1557	Donor (DL)
		nm	1303	1317	Remote (UL, DIV)
		nm	1323	1337	
Frequency		MHz	869	894	DL
		MHz	824	849	UL,DIV
RF Gain		dB	9	11	DL
		dB	14.5	16.5	UL,DIV
Flatness		dB(p-p)		2	
VSWR				1.5	S11/S22
Atten Control Range (Donor / DL1,UL,DIV)		dB	0	30	Accuracy ± 0.5 dB @ Step 0.5dB
Atten Control Range (Remote)		DL	dB	0	Accuracy ± 0.5 dB @ Step 0.5dB
		UL	dB	0	
		DIV	dB	0	
Input Detector (DL)		dBm	-40	5	Accuracy ± 0.5 dBm@ 0~-25dBm
Output Detector (DL)		dBm	-40	-10	Accuracy ± 0.5 dBm@ -15~ -25dBm
Input/Output Coupling		dB	-20.5	-19.5	
Optic Scattering Noise (DL,UL,DIV)		dB	10		@ 10Km Spool

Data Sheet(Optic analog Module Series)

Pilot Detector (UL,DIV)		dBm	-40	5	Accuracy ±0.5dBm@0~ -25dBm
RF Input Dynamic Range (DL,UL,DIV)		dBm	10		@Max Gain,2~8dBo @CDMA/Total 20FA
OIP3 (UL,DIV)		dBc	30		@ +3dBm/2Ton, 2dBo
Spurious (DL)	F±750KHz	dBc	47		@ -17dBm/20FA
	F±1.98Hz	dBc	62		
Output noise floor (UL,DIV)		dBm/Hz		-120	@8dBo,Gain15.5dB
Directivity		dBc	60		DL,UL
		dBc	50		DIV to UL
Alarm	LD	dBm	-5		Normal : High(+5V) TTL
	PD	dBo	-10		
Current	9V	mA		1500	Donor
	9V	mA		700	Remote
Gain Variation		P-P		2	
Operating Temperature		-30℃ ~ +70℃			
Optic Connector		FC/APC			
RF Connector		SMA Female			

Data Sheet(Optic analog Module Series)

Pin Map

1. Donor

D-Sub 26Pin Connector Configurations			
1	Atten_Data	14	LD_ARM (HIGH:NORMAL/LOW:ALARM)
2	Atten_CLK	15	LD_DET
3	Atten_EN1(TX_IN)	16	PD_ARM_0 ARM (HIGH:NORMAL/LOW:ALARM)
4	Atten_EN2(RX0_OUT1)	17	Atten_EN2(RX0_OUT2)
5	Atten_EN3(DIV_OUT1)	18	GND
6	GND	19	Atten_EN3(DIV_OUT2)
7	TX_IN_DET	20	INSERT (GND)
8	PILOT_RX0_DET	21	GND
9	PILOT_DIV_DET	22	VCC+9V
10	Modem_Tx_EN	23	VCC+9V
11	Modem_Tx_DATA	24	PD_ARM_1 ARM (HIGH:NORMAL/LOW:ALARM)
12	GND	25	NC
13	Modem_RX_DATA	26	NC

2. Remote

YDAW200-18Pin Connector Configurations			
1	VCC+9V	10	LD_ARM(RX0) (HIGH:NORMAL/LOW:ALARM)
2	VCC+9V	11	PD_ARM (HIGH:NORMAL/LOW:ALARM)
3	GND	12	Modem_TX_EN
4	GND	13	Modem_TX_DATA
5	Atten_Data	14	Modem_RX_DATA
6	Atten_CLK	15	TX_OUT_DET
7	Atten_EN(TX_OUT1)	16	PD_DET
8	Atten_EN(RX0_IN)	17	LD_ARM(DIV) (HIGH:NORMAL/LOW:ALARM)
9	Atten_EN(DIV_IN)	18	Atten_EN(TX_OUT2)

- Modem EN : 0V / Disable : +5V
- Modem Frequency : FSK 29.9MHz(Tx), 26.6MHz(Rx) /ASK 20MHz
- Data Rate: 38400bps

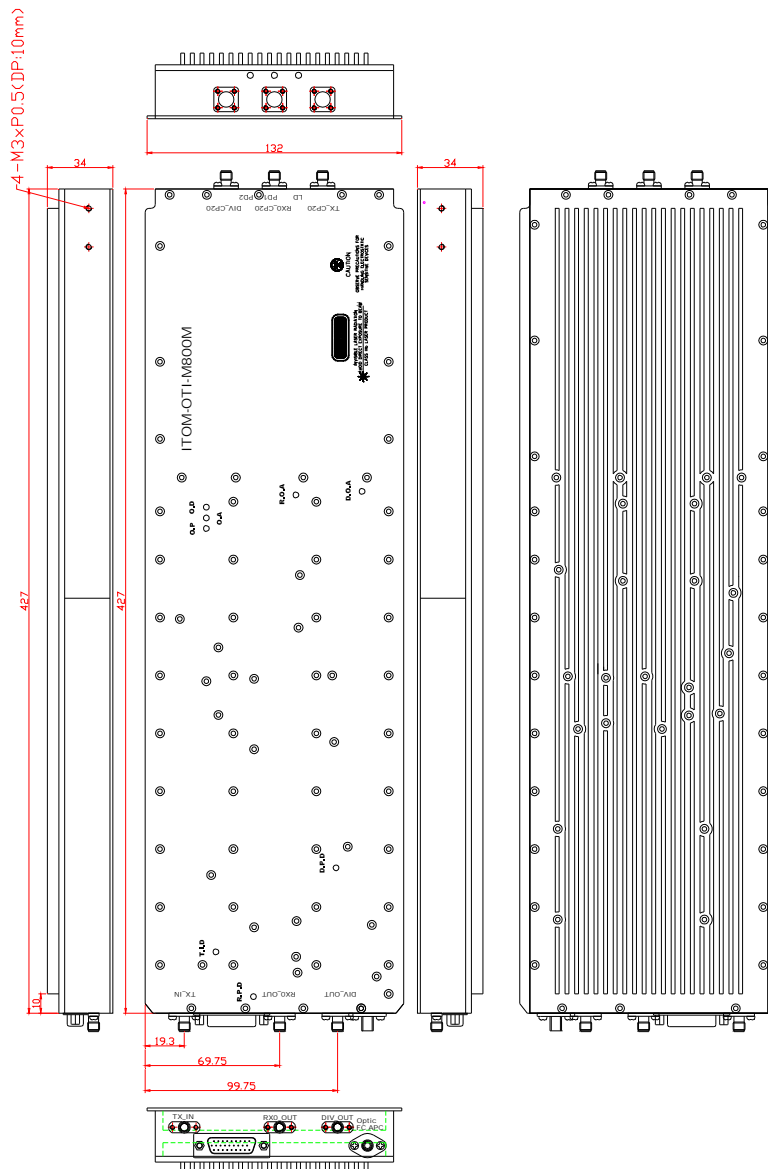
Data Sheet(Optic analog Module Series)

Absolute Maximum Ratings

Absolute Maximum Rating			
Parameter	Symbol	Rating	Unit
Optical Input Power		8	dBm
RF Input Power		-2	dBm
DC Supply Volts		9	V
Operating Temperature		-30 ~ +70	°C

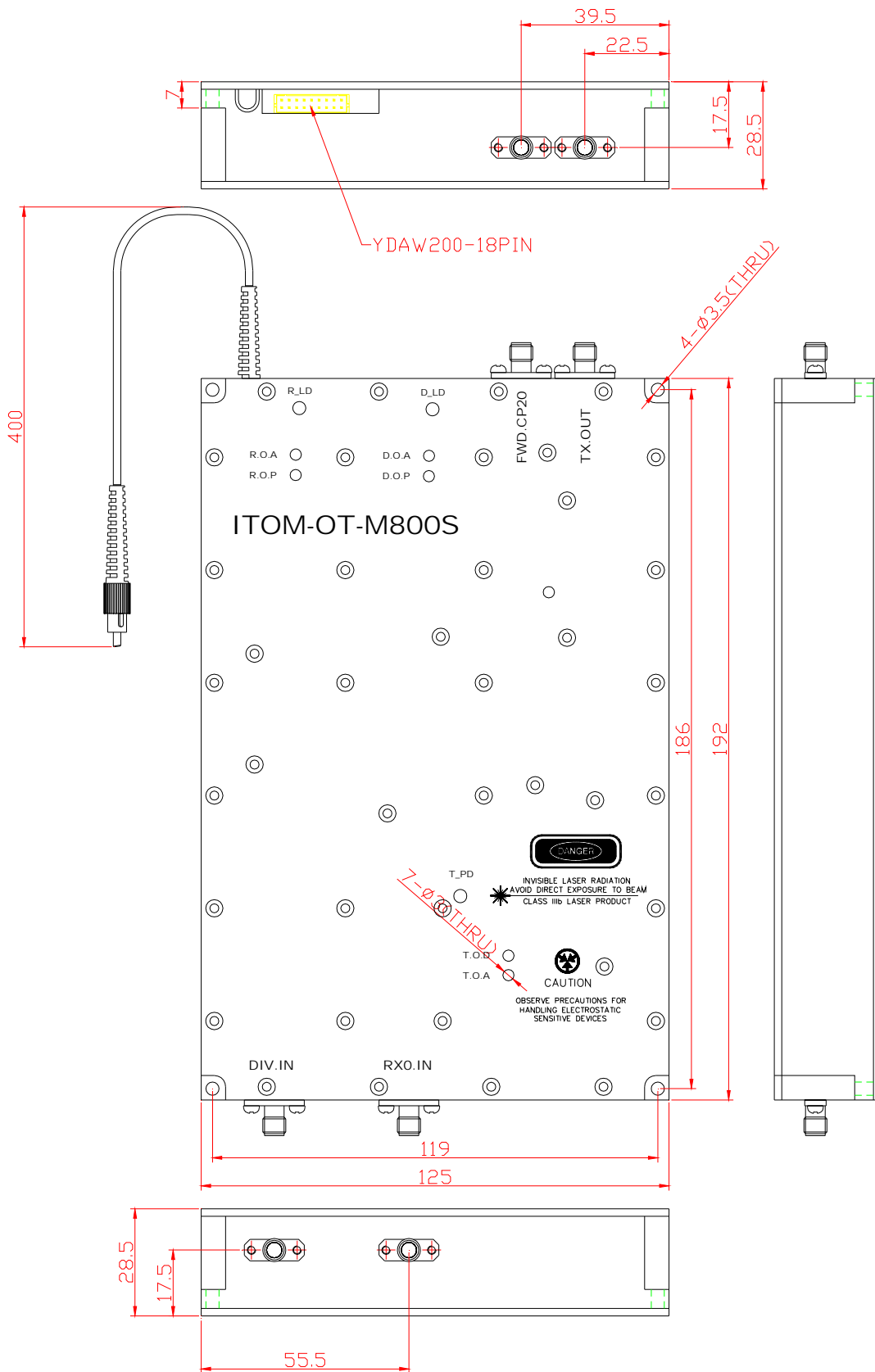
Mechanical Specification

1. Donor



Data Sheet(Optic analog Module Series)

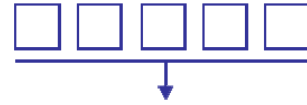
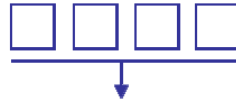
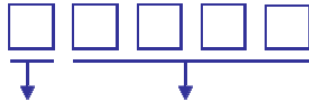
2. Remote



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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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