

Data Sheet(Optic analog Module Series)

ITOM-S0824-0894-DND22 / RRD22

Electrical Specification

Parameters		Unit	Min	Max	Remark
Optical output power		dBm	7	8	Donor
		dBm	7	8	Remote
Wave length		nm	1543	1557	Donor
		nm	1303	1317	Remote
Frequency		MHz	869	894	DL
		MHz	824	849	UL
RF Gain (Optic Loss 5dBo)		dB	-6.5	-4.5	DL
		dB	-8.5	-6.5	UL,DIV
Flatness		dB(p-p)		2	
VSWR				1.4	S11/S22
Atten Control Range (Donor, DL1,2)		dB	0	30	Accuracy ± 0.5 dB @ Step 0.5dB
Atten Control Range (Remote, UL)		dB	0	12	Accuracy ± 0.5 dB @ Step 0.5dB
Output Detector (DL)		dBm	-40	-10	Accuracy ± 0.5 dBm @ -10~ -30dBm
Output Coupling		dB	19.5	20.5	
Optic Scattering Noise (DL,UL,DIV)		dB	10		@ 10Km Spool
RF Input Dynamic Range (DL,UL)		dBm	10		@Max Gain,0~5dBo @CDMA/Total 20FA
OIP3 (UL)		dBc	25		@ -3dBm/2Ton, 0dBo
Spurious (DL)	F \pm 750KHz	dBc	47		@ -17.5dBm/20FA
	F \pm 1.98Hz	dBc	62		
Output noise floor (UL)		dBm/Hz		-145	@5dBo,Gain -7.5dB
Directivity		dBc	60		DL,UL

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Alarm	LD	dBm	-5		Normal : High(+5V)
	PD	dBo	-10		TTL
Current	9V	mA		500	Donor
	9V	mA		500	Remote
Gain Variation		P-P	-2	2	
Operating Temperature		-30℃ ~ +70℃			
Optic Connector		FC/APC			
RF Connector		SMA Female			

Pin Map

1. Donor

Molex 5267-08 Connector Configurations			
1	+9V	5	RX_DATA
2	GND	6	LD_ARM (HIGH:NORMAL/LOW:ALARM)
3	LD_DET	7	PD_ARM (HIGH:NORMAL/LOW:ALARM)
4	TX_DATA	8	GND

2. Remote

YDAW200-18Pin Connector Configurations			
1	VCC+9V	10	LD_ARM(RX) (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(RX_IN)	17	N.C
9	N.C	18	Atten_EN(TX_OUT2)

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

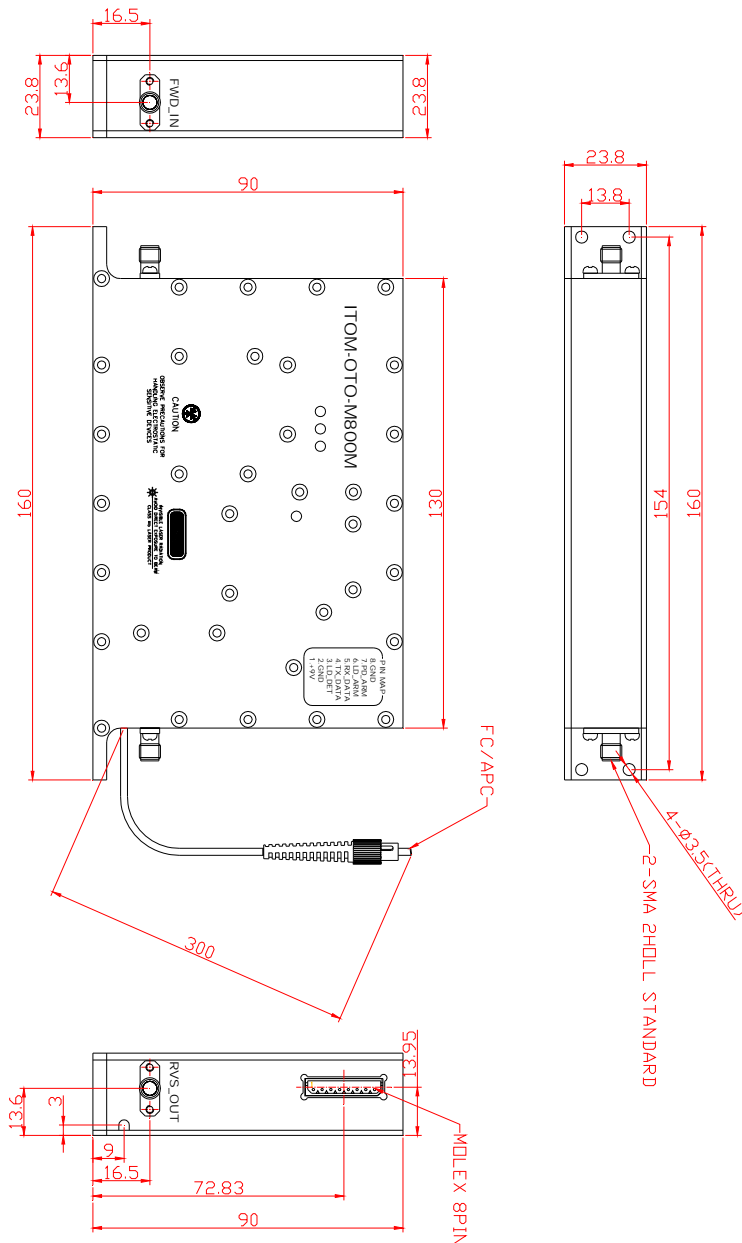
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Absolute Maximum Ratings

Absolute Maximum Rating			
Parameter	Symbol	Rating	Unit
Optical Input Power		8	dBm
RF Input Power		-7	dBm
DC Supply Volts		9	V
Operating Temperature		-30 ~ +70	°C

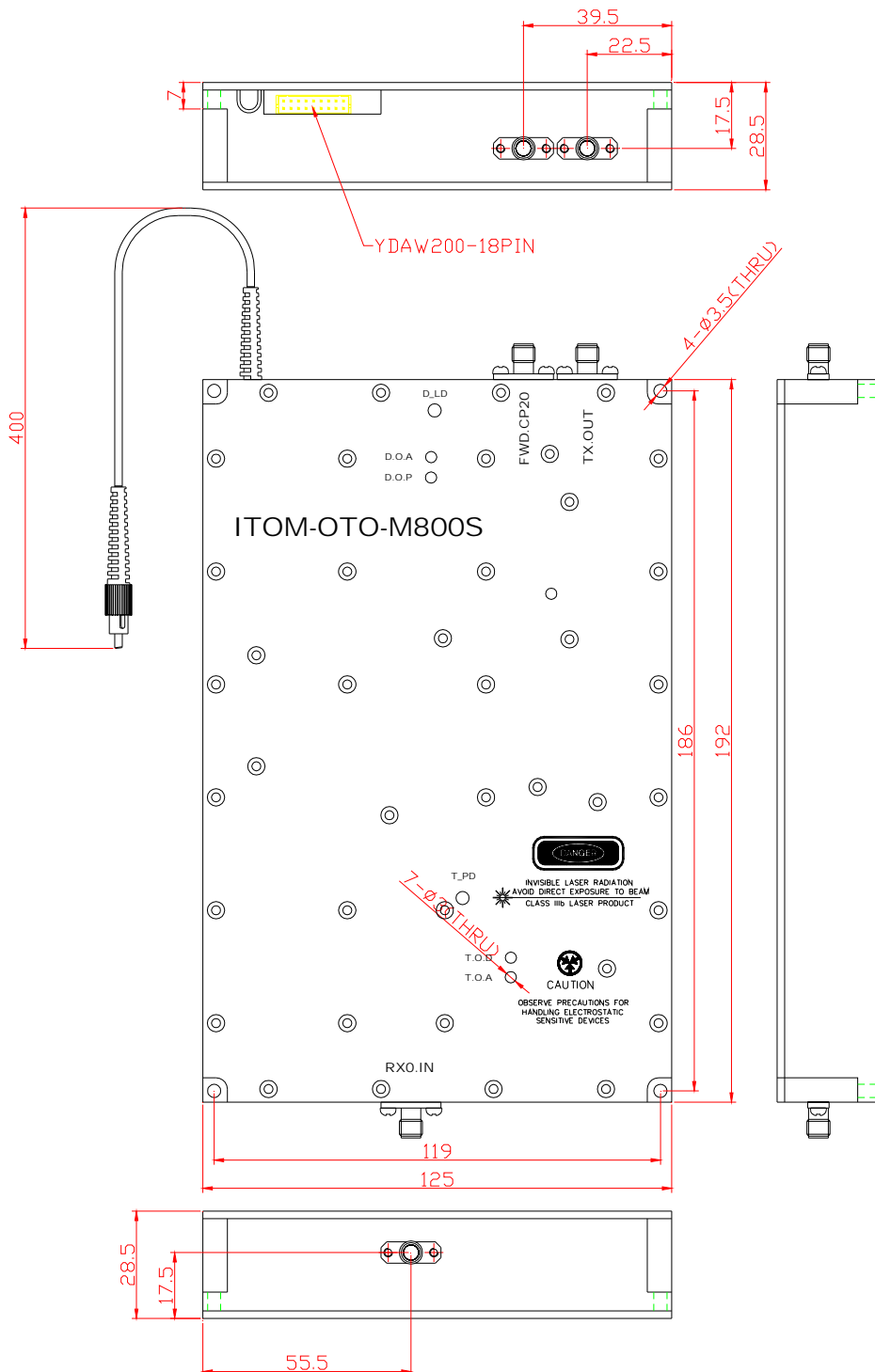
Mechanical Specification

1. Donor



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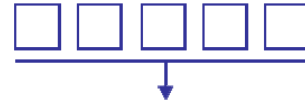
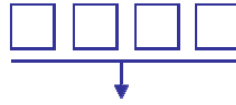
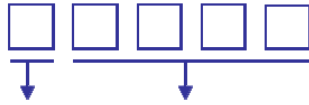
2. Remote



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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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