

Data Sheet(Optic analog Module Series)

ITOM-B0698-2155-DND42 / RRD42

Electrical Specification

Parameters		Unit	Min	Max	Remark
Optical output power		dBm	0	1	Donor
		dBm	7	8	Remote
Wave length		nm	1303	1317	Donor
		nm	1543	1557	Remote
Frequency		MHz	698	806	DL
			869	894	
			1930	1995	
			2110	2155	
		MHz	698	746	UL
			824	849	
			1710	1755	
			1850	1915	
RF Gain		dB	1	5	DL
		dB	-7	-3	UL
Flatness		dB(p-p)		1	
VSWR				1.5	S11/S22
Spurious		dBc	698 ~ 806MHz	52@5MHz	WCDMA 4FA (TM1 DPCH64)
			2110~2155MHz	53@10MHz	
		dBc	869 ~ 894MHz	48/30KHz@885KHz	CDMA 3FA (9CH FWD)
			1930~1995MHz	52/30KHz@1.98MHz	
		dBc	698 ~ 746MHz	50@5MHz	WCDMA 4FA (TM1 DPCH64)
			1710~1755MHz	53@10MHz	
		dBc	824 ~ 849MHz	48/30KHz@885KHz	CDMA 3FA (9CH FWD)
			1850~1915MHz	52/30KHz@1.98MHz	
Output noise floor		dBm/Hz	-130		@0dB _o Loss
Directivity		dBc	55		
Atten Control Range		dB	0	15	Accuracy ±0.5dB

Data Sheet(Optic analog Module Series)

Optic LD Detector		dBm	-5	5	
Optic PD Detector		dBm	0	10	
Current	9V	mA		1000	
Operating Temperature		-5°C ~ +55°C			
Optic Connector		SC/APC			
RF Connector		Trumpet Type(female)			

Data Sheet(Optic analog Module Series)

Pin Map

1. Donor

D-SUB 15Pin Connector Configurations			
1	LD ALARM (HIGH(+5V):FAIL / LOW: NORMAL)	9	FSK EN
2	LD Power Detector	10	Unit Insert
3	PD1 ALARM (HIGH(+5V):FAIL / LOW: NORMAL)	11	N/C
4	PD2 ALARM (HIGH(+5V):FAIL / LOW: NORMAL)	12	VCC(+9V)
5	PD3 ALARM (HIGH(+5V):FAIL / LOW: NORMAL)	13	GND
6	PD4 ALARM (HIGH(+5V):FAIL / LOW: NORMAL)	14	N/C
7	FSK_TXD	15	FSK EN
8	FSK_RXD		

2. Remote

SD-MOLEX-15A Connector Configurations			
1	PD ALARM (HIGH(+5V):FAIL / LOW: NORMAL)	9	PD Power Detector
2	LD ALARM (HIGH(+5V):FAIL / LOW: NORMAL)	10	ATT CLK
3	FSK_TXD	11	ATT DATA
4	FSK_RXD	12	Optic Loss Comp DL ATT EN
5	FSK EN	13	Optic Loss Comp UL ATT EN
6	ASK_TXD	14	VCC
7	ASK_RXD	15	GND
8	ASK EN		

- Modem EN : High(+5V) = Alarm, Low (0V) = Normal.
- Modem Frequency : ASK 20MHz(Tx), 20MHz(Rx)

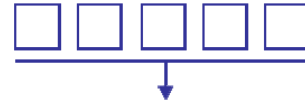
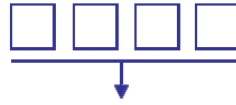
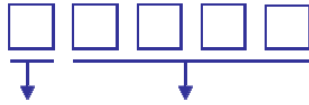
Absolute Maximum Ratings

Absolute Maximum Rating			
Parameter	Symbol	Rating	Unit
Optical Input Power		8	dBm
RF Input Power		-5	dBm
DC Supply Volts		9	V
Operating Temperature		-5 ~ +55	°C

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>