

## DESCRIPTION

This high-performance optical communication module integrates dual optical transmitters and receivers, supporting a wide frequency range of 100MHz• 6GHz . With its compact design and low power consumption, GPS/BEIDOU signal transport Antenna remoting Distributed antenna system.

## FEATURES

- I<sup>2</sup>C interface
- Low power consumption
- High dynamic input and output range
- Automatic optical power control
- Pluggable LC/PC optical connector
- Both Tx and Rx have optical power monitoring function
- Wide operating frequency from 100MHz to 6GHz
- Innovative design of golden finger for RF transmission
- Two optical transmitter and two optical receiver integrated

## APPLICATIONS

- WiMAX /Wi-Fi/ 4G / 5G/ 6G
- Mobile backhaul
- GPS/BEIDOU signal transport
- Antenna remoting
- Distributed antenna system

**6G SFP**

**Optical Module**

**2Tx and 2 Rx**



## ■ Specification

Parameter	Test Condition		MIN.	MAX	Unit
Frequency Range			0.1~6		GHz
Optical Wavelength	Tx		1260/1320	1280/1340	nm
	Rx		1320/1260	1340/1280	
Gain	F≤3GHz	MAX	--	--	dB
		MIN	-30	--	
	6GHz≥F>3GHz	MAX	--	--	
		MIN	-32	--	
Gain Flatness	100MHz~6GHz, TR liok		--	±3.0	dB
Output Optical Power	Operation point		6	10	dBm
Input P-1dB	4GHz		15	--	dBm
2nd Harmonic Rejection	Pin=0dBm, 100MHz~4GHz, MIN		40	--	dBc
	Pin=0dBm, 4GHz~6GHz, MIN		30	--	
SFDR			105	--	dB.Hz <sup>2/3</sup>
RF Return Loss	RF input and output port, 25°C		6	--	dB
Input IP3	P1,P2=2dBm, interval=100MHz		--	--	dBm
Noise Figure	F≤3GHz, MAX		--	40	dB
	6GHz≥F>3GHz, MAX		--	42	
Operating Current			--	80	mA
Operating Voltage	Tx Power supply		+3.14	+3.47	V
	Rx Power supply		+4.75	+5.25	