

FEATURES

- AGC
- Output 84~88dBuV ability
- Excellent flatness
- Low consumption
- Surge suppression design
- Input optical power monitoring LED
- 75Ω F-type connector



DESCRIPTION

Home Optical Receiver SMO-P58 is designed by SANLAND for FTTH application of CATV network. AGC function can keep stable output under -12dBm to -2dBm output.

QUICK REFERENCE DATA

PARAMETER	CONDITIONS	MIN	MAX	UNITS
Frequency range		70	2600	MHz
Output return loss(S22)	f=70 to 2600MHz	-	-8	dB
Total current consumption(DC)	V _B =5V	240	280	mA

LIMITING VALUES

PARAMETER	CONDITION	MIN.	MAX.	UNITS
Power Consumption	+5V	-	2	W
Operating temperature		-20	+60	°C
Operation Humidity	No Condensation	20%	90%	-
ESD Voltage	Contact	2	-	KV

CHARACTERISTICS

(Bandwidth 70 to 2600MHz; $T_{mb}=25^{\circ}\text{C}$, $V_B=5\text{V}$, $Z_S=Z_L=75\Omega$)

PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
Pass Channel Wave length	λ_p	1100	1550	1600	
Responsively	V/W	0.90	-	-	$\lambda=1550\text{nm}$
Receiving Optical Power	dB	-16	-	0	
LED Optical Monitoring Display	dBm	-12	-	-	Red
		-12	-	-2	Green
Optical Connector	-	-	-	-	SC/APC
Automatic Gain Control Receiving Power: -2~-12dBm (According to customer requirements)					
Flatness of frequency response	dB	-	± 2	-	$f=70$ to 2600MHZ, wide band flatness
Output Return Loss	dB	-	-	-8	$f=70$ to 2600MHZ
Total Current Consumption	mA	240	-	280	$V_B=+5\text{V}$
Output Voltage	dBuV	84	86	88	$P_{opt}=-2 \sim -12\text{dBm}$ OMI=4.0% per channel
Composite Triple Beat(CTB)	dB	-	-	-55	Optical power@-10dBm 60 CENELEC channels OMI=4% per channel
Composite Second Order distortion(CSO)	dB	-	-	-55	
Carrier-to-Noise Ratio(CNR)	dB	40	-	-	
Modulation Error Rate(MER)	dB	32	-	-	Optical power@-10dBm OMI=4%
Bit Error Ratio(BER)	-	-	-	10^{-9}	