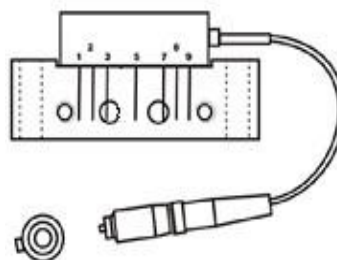


FEATURES

- Excellent Linearity
- High Optical Input Power Range
- Excellent Flatness
- Optimal Reliability
- Low Noise
- Outline Standarding
- High reliability
- FC/APC SC/APC



DESCRIPTION

The SMO815M1 has an FC/APC or SC/APC connector. The amplifier supply voltage pin is connected to 24V(DC) . The modules have a mono mode optical input suitable for 1290 to 1600nm wavelengths a terminal to monitor the photo diode current and an electrical output having a characteristic impedance of 75 Ω .

Pin	Description
1	Monitor current
5	+V _B
9	Output
2、3、7、8	GND

QUICK REFERENCE DATA

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNITS
f	Frequency range		40	870	MHz
S ₂₂	Output return losses	f=40 to 870 MHz	-10	-	dB
	Optical input return losses		45	-	dB
I _{tot}	Total current consumption(DC)	V _B =24V	100	130	mA

HANDLING

Fiberglass optical coupling: maximum tensile strength=5N;minimum bending radius=35mm

LIMITING VALUES

SANLAND ELECTRONIC

- Tel: 86-0755-28968333
 - Fax:86-0755-89724455
- Aug A 12/2020

- Http: www.sanlandtech.com
- E-mail: info@sanlandtech.com

In accordance with the Absolute Maximum Rating System

SYMBOL	PARAMETER	CONDITION	MIN.	MAX.	UNITS
P_{in}	Optical input power	continuous	-	3	mW
T_{stg}	Storage temperature		-40	+85	°C
T_{mb}	Operating mounting base temperature		-20	+85	°C
ESD	ESD sensitivity	Human body model; $R=1.5K\Omega$; $C=100pF$	500	-	V

CHARACTERISTICS

(Bandwidth 40 to 870MHz; $T_{mb}=25^{\circ}C$, $V_B=24V$, $Z_S=Z_L=75\Omega$)

SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
S	Responsivity	V/W	850	-	-	$\lambda =1300nm$
FL	Flatness straight line	dB	-	-	± 0.75	f=40 to 870 MHz
V_o	Output voltage	dB μ V	-	88	-	60 channels flat;
CTB	Composite triple beat	dB	-63	-	-	Measured at 543.25MHz;
CSO	Composite second order distortion	dB	-60	-	-	Optical power receiving at -1dbm
CNR	Carrier to noise ratio	dB	-50	-	-	
S_{22}	Output return loss	dB	-10	-	-	f=40 to 870 MHz
I_{tot}	Total current consumption	mA	100	-	130	$V_B=24V$

The module normally operates at $V_B=24V(\pm 0.5)$

MODULE OUTLINE

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