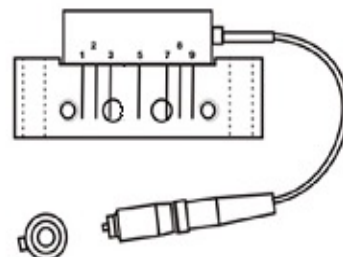


FEATURES

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



DESCRIPTION

The SMO2506 has an FC/APC or SC/APC connector.

The amplifier supply voltage pin is connected to 6V(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 75Ω.

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 =6V	220	270	mA

HANDLING

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

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LIMITING VALUES

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	□
T _{mb}	Operating mounting base temperature		-20	+85	□
ESD	ESD sensitivity	Human body model; R=1.5KΩ;C=100pF	500	-	V

CHARACTERISTICS

(Bandwidth 40 to 870MHz; T_{mb}=25□, V_B=6V, Z_S=Z_L=75Ω)

SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
S	Responsivity	V/W	850	-	-	λ=1300nm
FL	Flatness straight line	dB	-	-	±0.75	f=40 to 870 MHz
V _o	Output voltage	dBμV	-	93	-	60 channels flat; measured at 543.25 MHz; Optical power receiving at -1dBm
CTB	Composite triple beat	dB	62	-	-	
CSO	Composite second order distortion	dB	55	-	-	
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	220	-	270	V _B =6V

The module normally operates at V_B=6 V(±0.5)

MODULE OUTLINE

MODULE CONFIGURATION PHOTO

