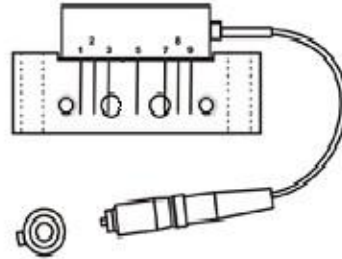


FEATURES

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



DESCRIPTION

The SMO3035 has an FC/APC or SC/APC connector.

The amplifier supply voltage pin is connected to 3.5V(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	+VB
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 =3.5V	70	100	mA

HANDLING

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

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Rev A 10/2018

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LIMITING VALUES

In accordance with the Absolute Maximum Rating System

SYMBOL	PARAMETER	CONDITION	MIN.	MAX.	UNITS
Pin	Optical input power	-	-	3	mW
Tstg	Storage temperature		-40	+85	°C
Tmb	Operating mounting base temperature		-20	+85	°C
ESD	ESD sensitivity	Human body model; R=1.5KΩ;C=100pF	500	-	V

CHARACTERISTICS

(Bandwidth 40 to 870MHZ; T_{mb}=25°C, V_B=3.5V, Z_S=Z_L=75Ω)

SYMBOL	PARAMETER	UNIT	MIN.	TYP.	MAX.	CONDITIONS
S	Responsivity	V/W	850	-	-	λ=1310±20nm
S	Responsivity	V/W	950	-	-	λ=1550±20nm
FL	Flatness straight line	dB	-	-	±0.75	f=40 to 870 MHZ
Vo	Output voltage	dBμV	-	90	-	60 channels flat; OMI=3.5% measured at 543.25 MHz; Optical power receiving at 0dBm
CTB	Composite triple beat	dB	70	-	-	
CSO	Composite second order distortion	dB	65	-	-	
CNR	Carrier to noise ratio	dB	50	-	-	
S22	Output return loss	dB	-11	-	-	f=40 to 870 MHZ
Itot	Total current consumption	mA	70	-	100	V _B =3.5V

The module normally operates at V_B=3.5 V(±0.5)

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MODULE CONFIGURATION PHOTO

