

# Model FOD3106

## 850/1300 nm pigtailed LED Combiner module



### DESCRIPTION

The FOD3106 LED combiner is the device of choice for fiber optic test and measurement applications. Designed specifically to meet industry requirements for certifying multimode cables, the FOD3106 offers stable power and wavelength characteristics.

The FOD3106 comes standard as a pigtailed device with 62.5/125 micron 900 micron buffer coated fiber. The pigtail is available terminated with any fiber optic connector. Other fiber types are also available upon request.

RoHS Compliant



ABSOLUTE MAXIMUM RATINGS			
Parameter	Symbol	Ratings	Unit
Maximum Current	I <sub>max</sub>	80	mA
LED Reverse Voltage	V <sub>rled</sub>	0.5	V
Operating Temperature	T <sub>op</sub>	-20 to +60	°C
Storage Temperature	T <sub>st</sub>	-30 to +70	°C

TECHNICAL SPECIFICATIONS						
Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Central Wavelength@25°C	$\lambda_c$	I <sub>op</sub> =60mA	830	850	870	nm
Spectral Width	$\Delta\lambda$	I <sub>op</sub> =60mA	-	40	-	nm
Forward Voltage	V <sub>op</sub>	I <sub>op</sub> =60mA	-	-	2	V
Output Power Temperature Stability	$\Delta P$	I <sub>op</sub> =60mA T <sub>1</sub> =23°C, T <sub>2</sub> =40°C	-	0	±0.2	dB
CW Output Power	P <sub>cw</sub>	I <sub>op</sub> =40mA@62.5/125	-19.5	-17	-	dBm
Central Wavelength@25°C	$\lambda_c$	I <sub>op</sub> =60mA	1290	1320	1350	nm
Spectral Width	$\Delta\lambda$	I <sub>op</sub> =60mA	-	135	-	nm
Forward Voltage	V <sub>op</sub>	I <sub>op</sub> =60mA	-	-	1.65	V
Output Power Temperature Stability	$\Delta P$	I <sub>op</sub> =60mA T <sub>1</sub> =23°C, T <sub>2</sub> =40°C	-0.25	-0.45	-0.6	dB
CW Output Power	P <sub>cw</sub>	I <sub>op</sub> =40mA@62.5/125	-19.5	-17	-	dBm

