

With 1310nm\1490nm reflect and pass 1550nm. 2~3.2GHz PIN transmission

OSMPDP-ACxxRxxxxxxxxx

Features:

- ◆ Coaxial package
- ◆ Low insertion loss
- ◆ Low return loss
- ◆ High channel separation
- ◆ High stability and reliability
- ◆ RoHS Compliant Products Available

Applications:

- ◆ Optical Receiver
- ◆ Cable TV systems
- ◆ FTTH

Absolute Maximum Ratings: ^{*Note1}

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	T_{stg}	-40	95	°C
Operating Temperature	T_{opr}	-40	85	°C
Reverse Voltage	V_R	---	20	V
Forward current	I_f	---	10	mA
Saturation Power	P_S	---	5mW	mW
Lead soldering (temperature)/(time)	---	---	260/10	°C/Sec

*Note1: Exceeding any one of these values may destroy the device immediately.

Electrical and Optical Characteristics:

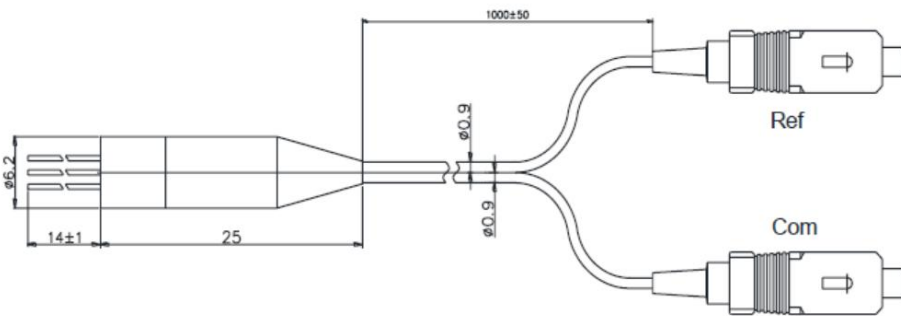
(Unless specified else,the specifications below are defined at $T_c=25^{\circ}C$)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Responsivity	R	$VR=-5V@1550nm$	0.85	0.90	---	A/W
Return Loss	RL	-	45	---	---	dB
Dark Current	I_d	$VR = 5V$	---	0.1	1	nA
Capacitance	C_p	$VR = 5V.f=1MHz$	---	0.56	1	pF

Bandwidth	BW	VR=5V	2	2.5	3.2	GHz
2nd orde intermodulation distortion ^{Note2}	IMD2	$\lambda=1550\text{nm}$	---	-75	-70	dBc
3rd orde intermodulation distortion ^{Note2}	IMD3	$\lambda=1550\text{nm}$	---	-85	-80	dBc
Wavelength	Reflect	λ_1	1260	1310	1360	nm
	Reflect	λ_2	1480	1490	1500	nm
	Pass	λ_3	1540	1550	1560	nm
Isolation	Pass channel	Iso	30	---	---	dB
	Reflect channel		50	---	---	
Plarization dependent loss	Pass channel	PDL	---	---	0.1	dB
	Reflect channel		---	---	0.1	
Insert loss	Pass channel	IL	---	---	0.6	dB
	Reflect channel		---	---	0.5	

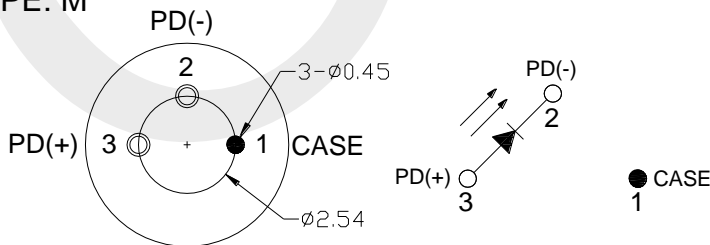
Note2: IMD2 measured at VR=12V, Pavg=0dBm, OMI=0.7, RLOAD=50Ω, f1+f2=850 MHz, f1-f2=50 MHz. All are measured at 25°C.

Pigtail series



Pin

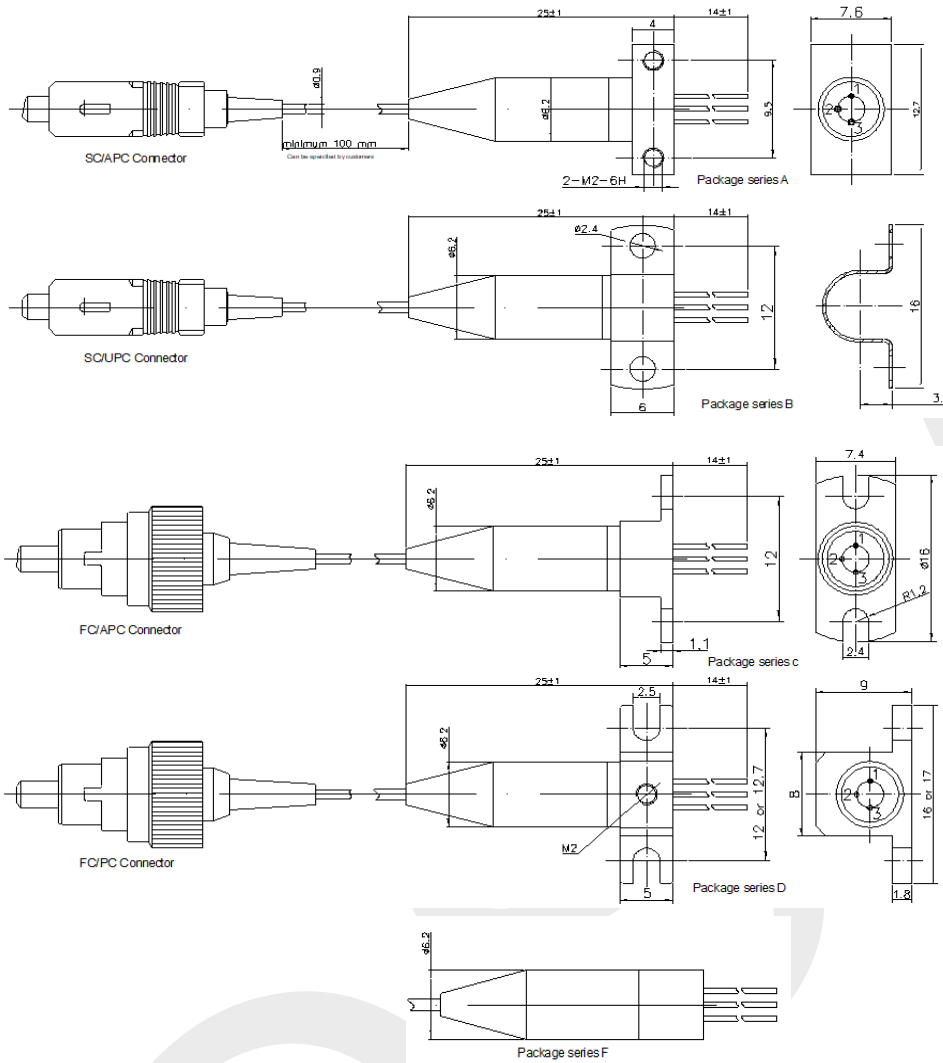
TYPE: M



PD-pin-M

Assignment:

Package series:



Nomenclature:

OSMPDP-

A B C D E F G H I J K L M

A	Wavelength	A=T1550R1310/1490		B=others	
B	Patch cord	C=COM			
C	COM connector	F=FC/PC	S=SC/PC	T=ST/PC	L=LC/PC
		FA=FC/APC	SA=SC/APC	LA=LC/APC	Blank=None
D	Fiber color	B=Blue	R=Red	W=White	
E	Patch cord	R=Reflect			
F	Reflect connector	F=FC/PC	S=SC/PC	T=ST/PC	L=LC/PC
		FA=FC/APC	SA=SC/APC	LA=LC/APC	Blank=None
G	Fiber color	B=Blue	R=Red	W=White	
H	Bandwidth	0≥2GHz	1≥2.5GHz	2≥3.2GHz	
I	Pin Type	M=PD-pin-M			

J	Package series	A	B	C	D	F
K	Fibre length	BLANK=100cm		040=40cm		XXX=000cm
L	Fiber Type	Blank=SM			M=MM	
M	Fiber Diameter	BLANK=0.9mm	2=2.0mm		3=3.0mm	

Precaution:

(1) The modules should be handled in the same manner as ordinary semiconductor devices to prevent the electro-static damages. For safe keeping and carrying, the modules should be packaged with ESD proof material. To assemble the modules on PCB, the workbench, the soldering iron and the human body should be grounded.

(2) Please pay special attention to the atmosphere condition because the dew on the module may cause some electrical damages.

(3) Under such a strong vibration environment as in automobile, the performance and reliability are not guaranteed.

Notice:

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