



## AC6504 Series

### Uncooled 622Mbps Receiver in ROSA Package

**Features:**

- AGC amplifier
- Differential ended output
- Single +3.3V/+5V operation
- Wide operation temperature (-40°C~ +85°C)
- High reliability
- Suitable for 622Mb/s applications
- Receptacle or pigtail module
- **Applications:** Telecommunication and Data communication

**Electrical/Optical Characteristics (T<sub>c</sub>=25°C)**

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit	
Power Supply	V <sub>cc</sub>		A	3.0	3.3	3.6	V
			B	4.5	5.0	6.0	
Supply Current	I <sub>cc</sub>	No loads		40		mA	
Gain @10Mbps Differential	G	λ=1310nm	A		30		V/mW
			B		5		
Bandwidth	BW		450			MHz	
Wavelength	λ		1100	1310	1650	μm	
Output Resistance	R <sub>out</sub>			50		Ohms	
Saturation Power	P <sub>sat</sub>	λ=1310nm	-3	0		dBm	
Sensitivity (BER=10 <sup>-10</sup> )	SEN	λ=1310nm		-31.5	-29	dBm	

**Absolute Maximum Ratings(T<sub>c</sub>=25°C):**

Parameter	Symbol	Ratings	Unit	
Voltage	V	A	4.5	V
		B	6.0	
Case Temperature	T <sub>C</sub>	-40 ~ +85	°C	
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°C	
Load Solder Temperature and Time		260 °C, 10sec		

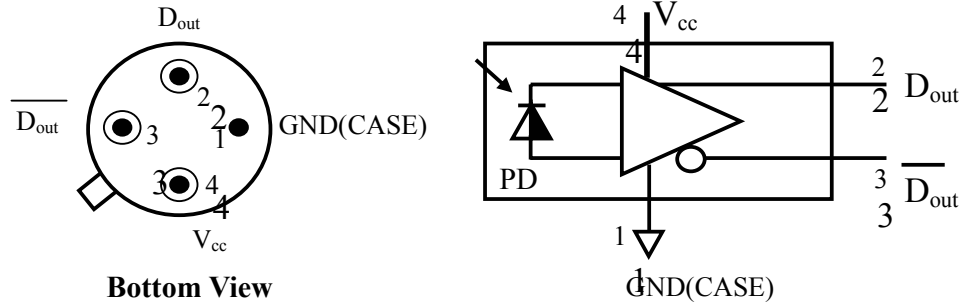
**Ordering Information:**

**AC6504-W-X**

W=L for LC connector type; W=S for SC connector type; W=P for fiber pigtail

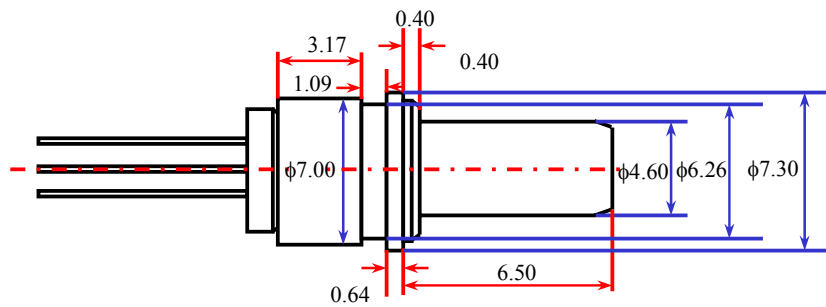
X=A or B

**Pin assignment:**

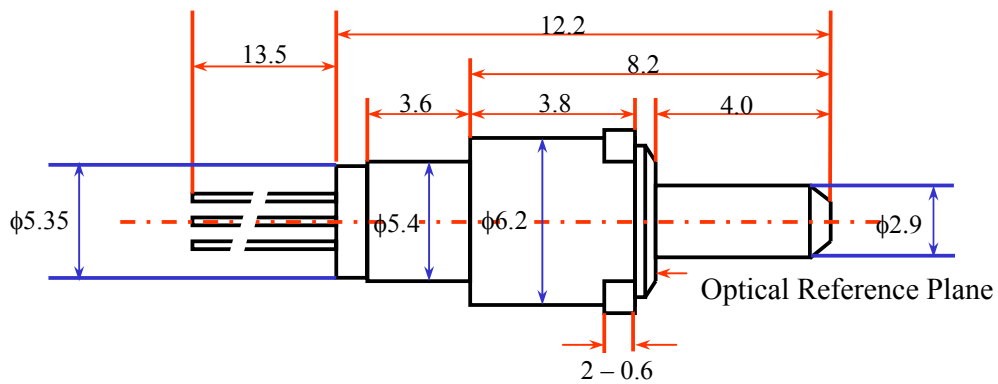


**Outline Drawing (Customer special order is available) :**

W=S



W=L



Archcom Technology, Inc. reserves the right to make changes in design, specifications and other information at any time without prior notice. Information in this data sheet is believed to be reliable. However, no responsibility is assumed for possible inaccuracy or omission.