

**Model:SDLVA-0.1G20G-59**
**SDLVA**
**0.1-20 GHz, TSS:-59dBm,2.92mm Female**
**Feature:**

- Broadband Frequency Response
- TSS :-59 dBm
- Fast Log Video Response Time
- Low Power Consumption
- Small Size

**Electrical Specifications:**

Parameter	Test Conditions	Min	Typ	Max	Units
Frequency range		0.1-20			GHz
Dynamic Range	±3dB Log Error		65		dBm
Output Voltage	Pin=-53dBm		0.8		V
	Pin=+6dBm		1.7		
Slope	-53dBm~+6dBm		18		mV/dB
Log Error@-40~+85°C	-53dBm~+6dBm		±3		dB
RiseTime			5		ns
FallTime			10		ns
DC Voltage			5		V DC
DC Supply Current				100	mA
Impedance		50			Ohms

**Mechanical Specifications:**

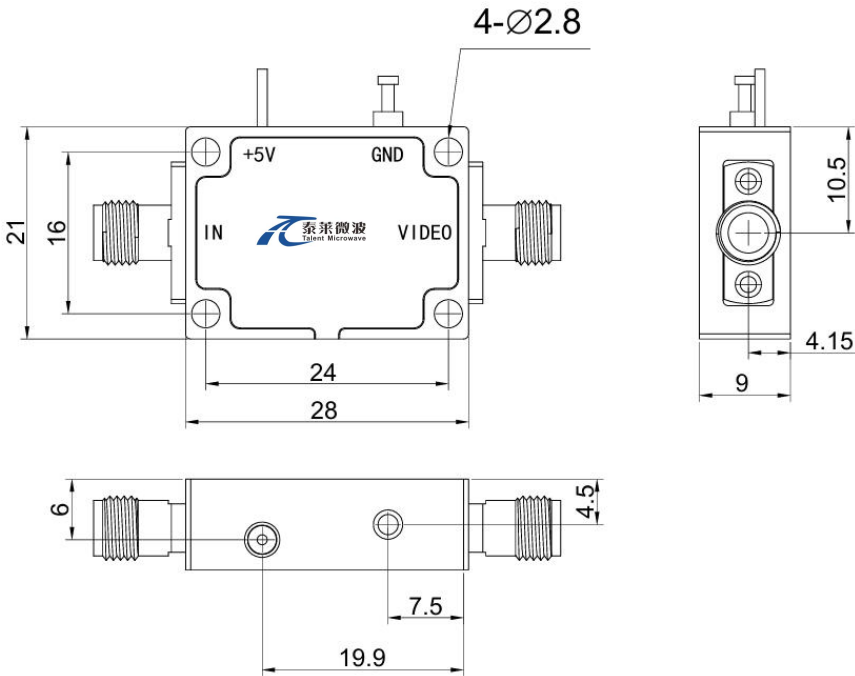
Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Fmale	
DC Bias	Solder Pin	
Size	28*21*9	mm
Weight	50	g

**Absolute Maximum Ratings:**

Parameter	Value
RF Input Power	8 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

**Outline Drawing:**

Unit: mm



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

**Environmental Conditions:**

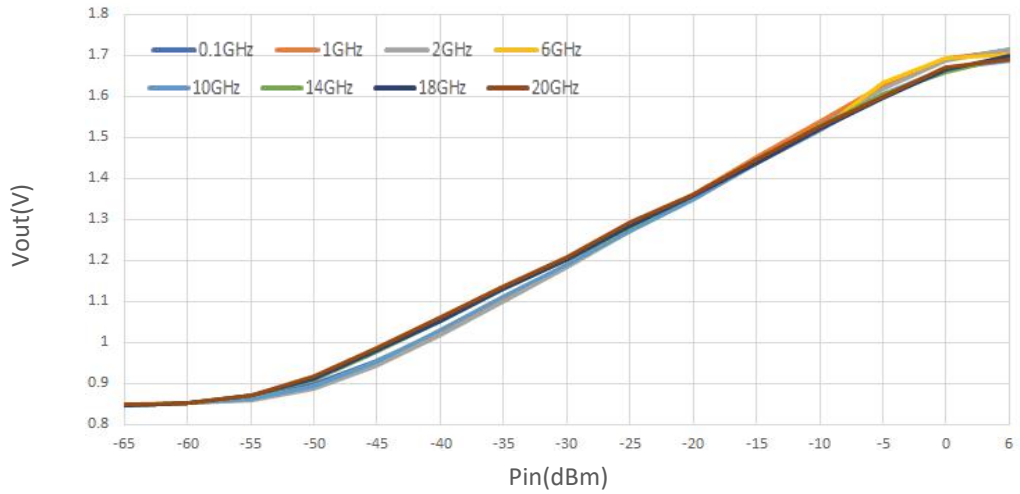
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20g for 11msc half sin wave,3 axis both directions			

**Ordering Information:**

Part Number	Description	Revision
SDLVA-0.1G20G-59	SDLVA 0.1-20GHz, TSS:-59dBm,2.92mm Female	Rev.1.1

Typical Performance Data:

Vout vs Pin



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.