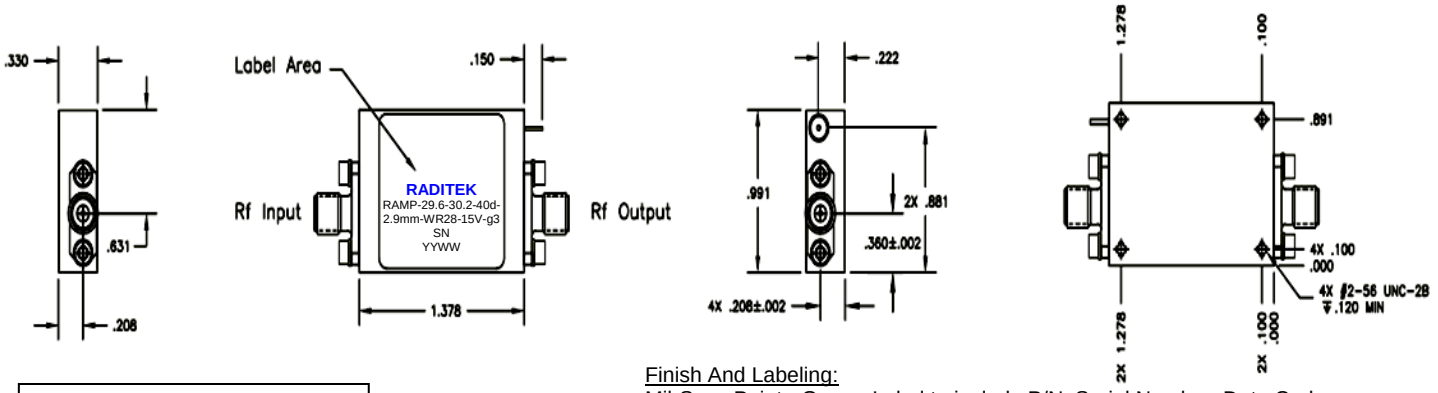
RADITEK INC.

code-g3

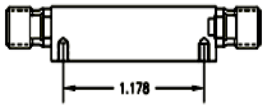
Ka-Band Power Amplifier, 29.6-30.2GHz, 26-40dB Gain

2.9mm Connectors/ WR28, 15 Volts Supply



WR28 option not shown

Units: Inch
Not to scale



Finish And Labeling:
Mil-Spec Paint - Green, Label to include P/N, Serial Number, Date Code, Input/Output and Supply Voltage.
Final Acceptance Testing
All units to be provided with Standard Acceptance Data: Gain, Noise figure, Power, VSWR In/Out, and Current at +25 °C.

*Certificate of Compliance provided.
**Inspection System: Mil-I-45208A

Parameter		Specification	Specification	Units	Comments
Frequency Range:		29.6-30.2	29.6-30.2	GHz	
Small Signal Gain:		26-28	38-40	dB	@+25C
Gain Flatness:		+/-1.0	+/-1.0	dB max.	
Gain Variation OT:		+/-2.0	+/-2.0	dB max.	
Noise Figure:		8.0	6.0	dB max.	
Output Power (P-1)		+30	+30	dBm Min.	+30.8dBm Typical
Output Power (Psat)		+31	+31	dBm Min.	
Harmonics		-30	-30	dB Typical	
Spurious		-60	-60	dBc Min.	
VSWR	Input	1.8:1	1.8:1	Ratio :1	
	Output	1.8:1	1.8:1	Ratio :1	
Group Delay Variation		200	200	ns typical	
Input Power Handling		+10	+10	dBm Max. CW	
Supply Voltage		+14.25 to +15.75	+14.25 to +15.75	Volts	+15V Nominal
Current		1000	1000	mA Max.	900 Typical
Operating Temperature		-20 to +70	-20 to +70	deg C	
Connector Type		2.92mm	2.92mm	In	
		2.92mm	WR28	Out	
		Solder Connection	Solder Connection	DC	

Note 1:
The waveguide option will be developed as a **special**. Right angle or end launch configuration. The lead-time is going to be 12 Weeks for the adapter since this is a new design. As a second option use the 2.9 connector option and a Coax to Waveguide adapter to save lead-time and money. Raditek can supply the adapter separate and mount to the unit. The downside is that the performance might be sacrificed due to adapter mismatch. Typically 0.2db

Note 2:
On the 15 pin connector, please note the case is almost as small as the connector you are requesting. We would have to create a new housing to accommodate this request. It can be done if your customer chooses to. There would also be NRE for New layout. I would assume for 1 piece this would not be a show stopper. If they are using this as a qual unit and need many more in the future then it would be worth the investment.

WORLD HQ: 1702L Meridian Ave. Suite 127, San Jose, Ca 95125, U.S.A.
Tel: (408) 266-7404 FAX: (408) 266-4483
WEB: www.raditek.com E-mail: sales@raditek.com