



### Specifications

FREQUENCY BAND		K	Ka	Q	U	V	E	W	
Frequency Range (GHz)		18-26.5	26.5-40	33-50	40-60	50-75	60-90	75-110	
Waveguide Size		WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10	
Output Power Range <sup>1</sup>	(mW)	10-500	10-300	10-250	10-200	10-100	10-80	10-50	
	(dBm)	10-27	10-25	10-24	10-23	10-20	10-19	10-17	
DC Bias Voltage Range (typ)	GaAs (volts)	5-8	5-7	5-6	5-6	3-6	3-6	3-6	
	InP (volts)	---	---	6-11	6-10	6-10	8-10	8-10	
DC Bias Current Range (typ)	GaAs (Amp)	0.6-2.0	0.6-2.6	0.6-2.0	0.6-2.0	0.6-1.5	0.6-1.5	0.6-1.5	
	InP (Amp)	---	---	0.3	0.3	0.3	0.25	0.25	
Mechanical Tuning Range (MHz) <sup>2</sup>		0.1-4	0.1-5	0.1-5	0.1-5	0.1-5	0.1-8	0.1-10	
Frequency Stability (MHz/°C typ)		-1.5	-2	-2.5	-3	-4	-4	-5	
Power Stability (dB/°C typ)		-0.02	-0.02	-0.03	-0.03	-0.03	-0.03	-0.03	
Operating Temperature		0 to 50 °C							
<b>Custom Products available. Contact us at sales@quinstar.com or submit an RFQ.</b>									

Other waveguide sizes are available.

- Higher power outputs are available at selected frequencies. Amplified versions offered with significantly higher power output.
- Standard units have a minimum tuning range of  $\pm 250$  MHz. Broader mechanical tuning ranges are available.



### Mechanical Specifications

FREQUENCY BAND	WAVEGUIDE SIZE	FLANGE PATTERN	OUTLINE DIMENSIONS, inches/mm <sup>1</sup>		
			A	B	C
<b>K</b>	WR-42	UG-595/U	1.13/28.7	1.38/35.1	1.00/25.4
<b>Ka</b>	WR-28	UG-599/U	1.13/28.7	1.38/35.1	1.00/25.4
<b>Q</b>	WR-22	UG-383/U	1.13/28.7	1.38/35.1	1.00/25.4
<b>U</b>	WR-19	UG-383/U	1.13/28.7	1.38/35.1	1.00/25.4
<b>V</b>	WR-15	UG-385/U	0.88/22.4	1.13/28.7	1.00/25.4
<b>E</b>	WR-12	UG-387/U	0.88/22.4	1.13/28.7	1.00/25.4
<b>W</b>	WR-10	UG-387/U	0.88/22.4	1.13/28.7	1.00/25.4
<b>F</b>	WR-8	UG-387/U	0.88/22.4	1.13/28.7	1.00/25.4
<b>D</b>	WR-6	UG-387/U	0.88/22.4	1.13/28.7	1.00/25.4

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1. Consult factory for exact outline dimensions if options are specified.

**Outline Drawings**

