

FEATURES

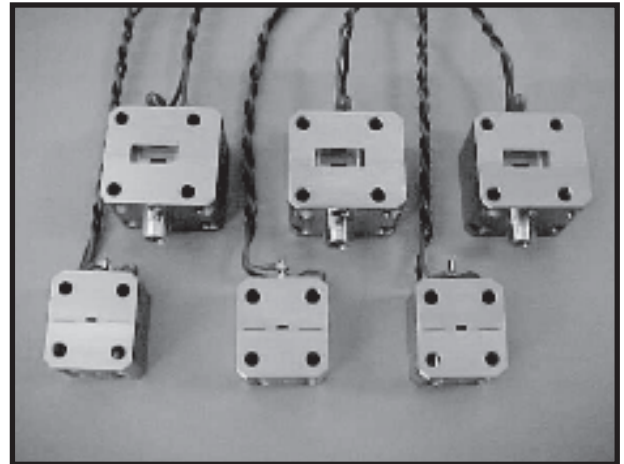
- ❖ Fix or mechanically tuned
- ❖ Excellent frequency and power stability
- ❖ Extremely high external Q
- ❖ Very low phase noise
- ❖ Self locking tuning mechanism

APPLICATIONS

- ❖ Police speed radar guns
- ❖ Doppler sensors
- ❖ Transceivers

DESCRIPTION

OGL series K and Ka band Gunn diode oscillators are especially designed for low cost commercial applications. Unlike most manufacturers' products, these oscillators are made of high performance devices and machined aluminum cavities. Due to extremely high external Q and temperature compensation mechanism, these oscillators exhibit higher frequency and power stability, lower phase noise and higher anti-load-pulling abilities. The oscillators are ideal candidates for the applications such as Police Speed Radar Gun and Doppler Sensors, where low close-in phase noise and high frequency stability are required.



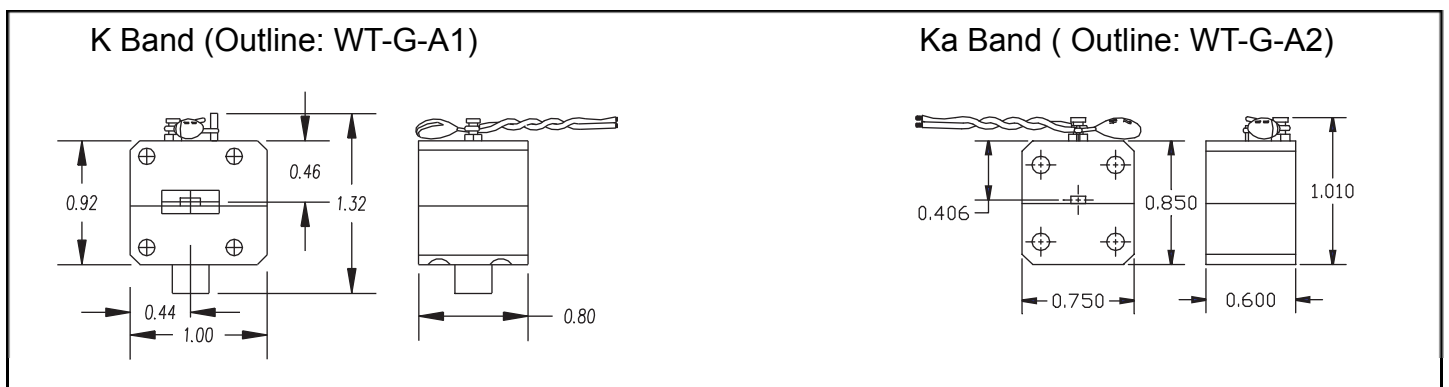
OGL Series

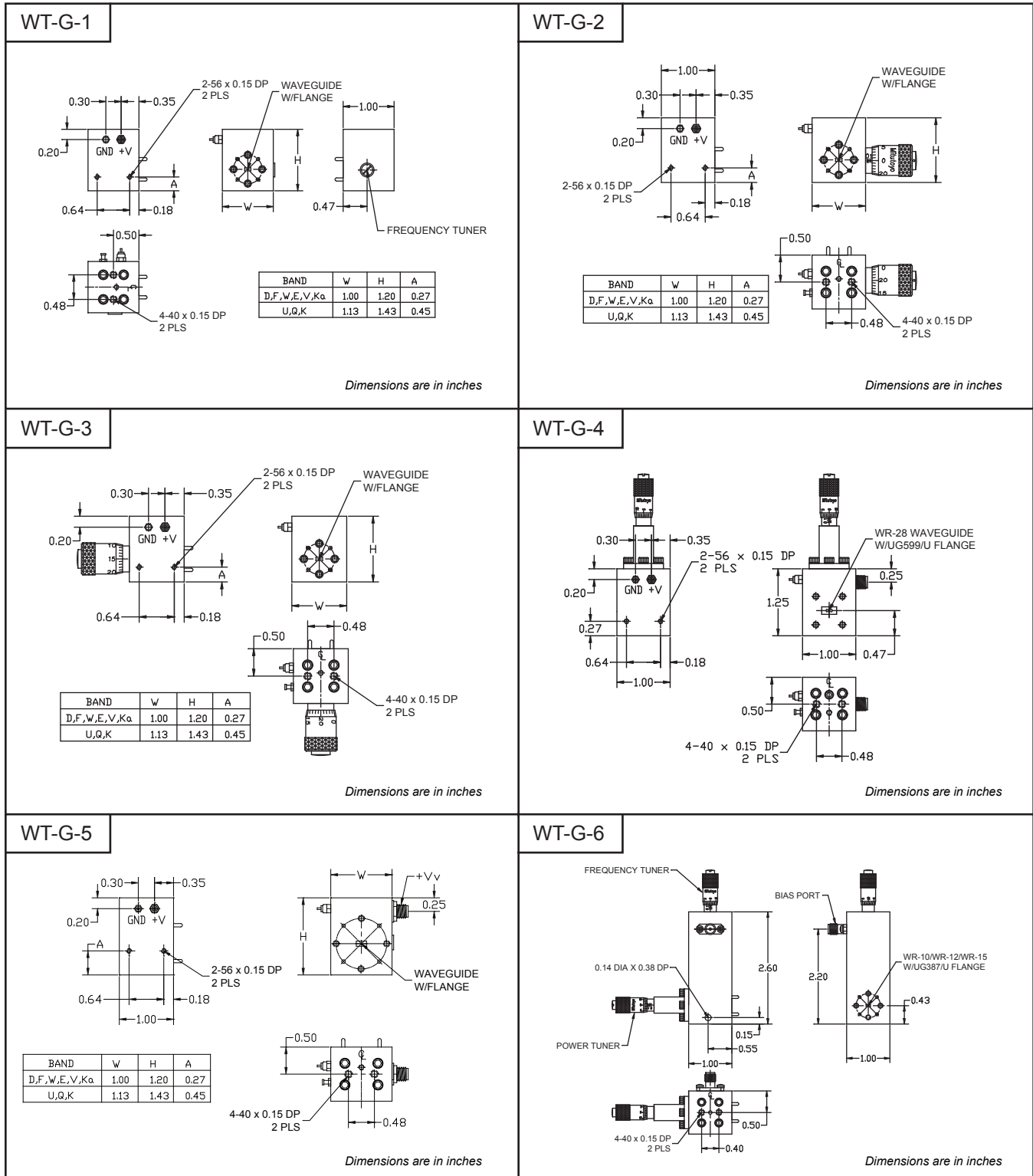
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SPECIFICATIONS

Typical Specifications	
K Band (Model No.: OGL-42240110-31)	Ka Band (Model No.: OGL-28350110-32)
Center frequency: 24.125 GHz Power Output: +10 dBm (minimum) Mechanical tuning range: ± 500 MHz (minimum) $\Delta F/\Delta T$: -0.20 MHz/ $^{\circ}$ C (maximum, -40 to +85 $^{\circ}$ C) $\Delta P/\Delta T$: -0.03 dB/ $^{\circ}$ C (maximum, -40 to +85 $^{\circ}$ C) Phase noise: -98 dBc/Hz @ 100 KHz offset Bias: 5.5V/250 mA (Typical) Flange: UG595/U (through holes, 4-40) Temperature Range: -40 to +85 $^{\circ}$ C	Center frequency: 35.000 GHz Power Output: +10 dBm (minimum) Mechanical tuning range: ± 500 MHz (minimum) $\Delta F/\Delta T$: -0.40 MHz/ $^{\circ}$ C (maximum, -40 to +85 $^{\circ}$ C) $\Delta P/\Delta T$: -0.04 dB/ $^{\circ}$ C (maximum, -40 to +85 $^{\circ}$ C) Phase noise: -95 dBc/Hz @ 100 KHz offset Bias: 5.5V/350 mA (Typical) Flange: UG599/U (through holes, 4-40) Temperature Range: -40 to +85 $^{\circ}$ C

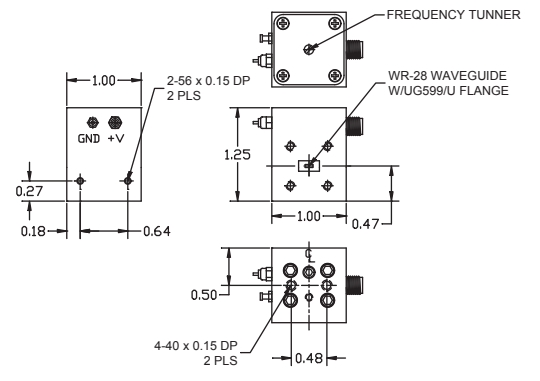
OUTLINE





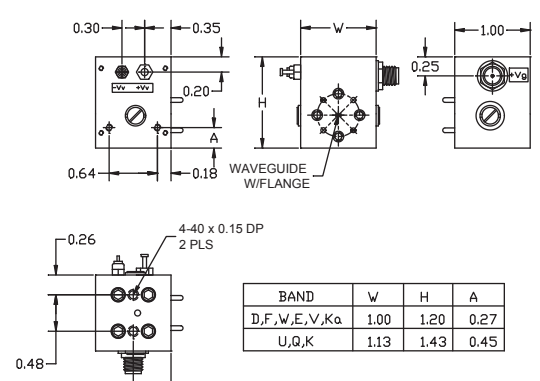
The flange pattern shown is for illustration purpose. Refer to Technical Reference Section for flange pattern details. The outline drawings shown are standard versions. Contact factory for your specific package requirements.

WT-G-7



Dimensions are in inches

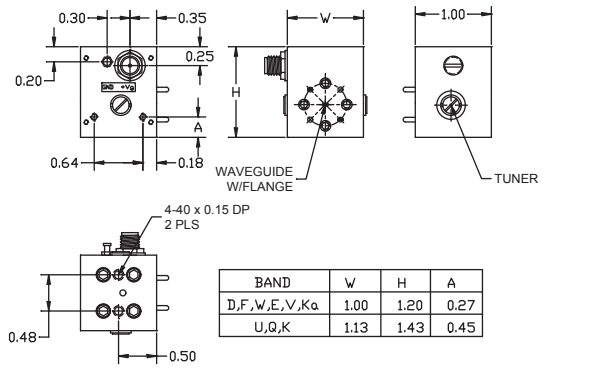
WT-G-8



BAND	W	H	A
D,F,W,E,V,K α	1.00	1.20	0.27
U,Q,K	1.13	1.43	0.45

Dimensions are in inches

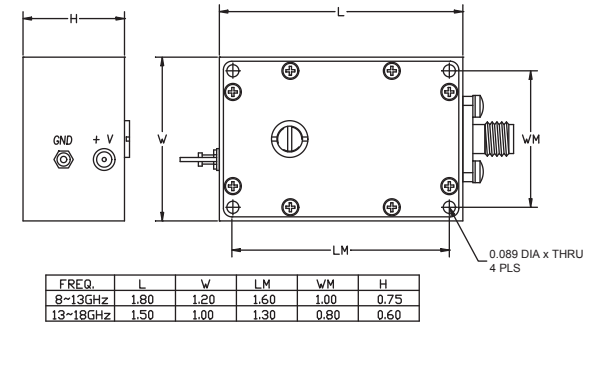
WT-G-9



BAND	W	H	A
D,F,W,E,V,K α	1.00	1.20	0.27
U,Q,K	1.13	1.43	0.45

Dimensions are in inches

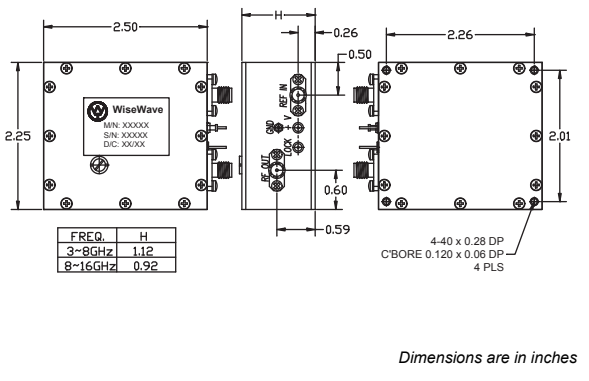
WT-G-10



FREQ.	L	W	LM	WM	H
8~13GHz	1.80	1.20	1.60	1.00	0.75
13~18GHz	1.50	1.00	1.30	0.80	0.60

Dimensions are in inches

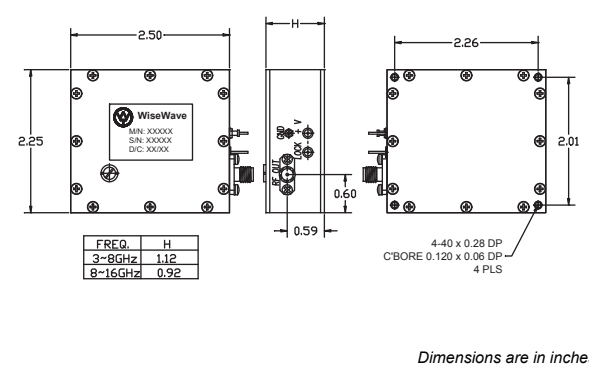
WT-G-11



FREQ.	H
3~8GHz	1.12
8~16GHz	0.92

Dimensions are in inches

WT-G-12



FREQ.	H
3~8GHz	1.12
8~16GHz	0.92

Dimensions are in inches

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