

**Salient Features for the Wenzel 14.2 GHz and 600 MHz Phase Lock Loop (PLL)  
Oscillators**

**For the 14.2 GHz PLL (p/n: 500-12865):**

**Input**

**Frequency**

10 MHz

**Level**

+7 dBm  $\pm$ 5 dBm into 50 ohms

**OUTPUT**

**Frequency**

14.2 GHz

**Level**

+10 dBm  $\pm$ 2 dBm into 50 ohms

**STABILITY**

**Aging**

1 x 10<sup>-9</sup> per day after 30 days operating, typical

**Phase Noise L(f),**

10 Hz -83 dBc/Hz

100 Hz -102 dBc/Hz

1 KHz -111 dBc/Hz

10 KHz -131 dBc/Hz

**Temperature Stability**

$\pm$ 5 x 10<sup>-8</sup>, 0° to +50°C (Ref +25°C)

**Sub-Harmonics and Related Products**

-40 dBc

**Harmonics**

-30 dBc

**MECHANICAL**

**Dimensions**

8 x 10 x 2.62"

**Connectors**

SMA F and feedthru capacitors

**Packaging**

Aluminum housing with extended mounting cover and gasketed access screw

**POWER REQUIREMENTS**

**Warm-Up Power**

31 Watts max for 5 minutes

**Total Power**

23 Watts at +25°C

**Supply Voltage**

+15 VDC

**ADJUSTMENT**

**Electrical Tuning**

$\pm$ 2 x 10<sup>-6</sup>,  $\pm$ 5 VDC

Negative slope

**Crystal Type**

SC-cut

**For the 600 MHz GHz PLL (p/n: 500-12864):**

**INPUT**

**Frequency**

10 MHz

**Level**

+7 dBm  $\pm$ 5 dBm into 50 ohms

**OUTPUT**

**Frequency**

600 MHz

**Level**

+10 dBm  $\pm$ 2 dBm into 50 ohms

**STABILITY**

**Aging**

1 x 10<sup>-9</sup> per day after 30 days operating, typical

**Phase Noise L(f),**

10 Hz -106 dBc/Hz

100 Hz -124 dBc/Hz

1 KHz -137 dBc/Hz

10 KHz -156 dBc/Hz

**Temperature Stability**

$\pm$ 5 x 10<sup>-8</sup>, 0° to +50°C (Ref +25°C)

**Sub-Harmonics and Related Products**

-40 dBc

**Harmonics**

-30 dBc

**MECHANICAL**

**Dimensions**

7 x 8 x 2.62"

**Connectors**

SMA F and feedthru capacitors

**Packaging**

Aluminum housing with extended mounting cover and gasketed access screw

**POWER REQUIREMENTS**

**Warm-Up Power**

23 Watts max for 5 minutes

**Total Power**

18 Watts at +25°C

**Supply Voltage**

+15 VDC

**ADJUSTMENT**

**Electrical Tuning**

$\pm$ 2 x 10<sup>-6</sup>,  $\pm$ 5 VDC

Negative slope

**Crystal Type**

SC-cut