**1) CUSTOMER INFORMATION**

Company: Address 1:

Contact Name: Address 2:

Position: City:

Phone: State:

Fax: Zip:

Email: Country:

**2) INSTRUMENT RFQ DETAILS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Date of RFQ** | **RFQ #** | **Preferred/Acceptable Delivery Schedule** | **Quantity to Quote** | **Quote Validity** | **Parts Selection** | **Special Instructions** |
| Click here to enter a date. | ☐ N/A  ☐ | ☐ ASAP  ☐ 12-16 wks ARO  ☐ 16-20 wks ARO  ☐ 20+ wks ARO | ☐ 1  ☐ 2-4  ☐ 5-9  ☐ 10-19  ☐ 20-49  ☐ 50+ | ☐ 60 days  ☐ 90 days  ☐ 180 days  ☐ Specific Date: | ☐ No Preference  ☐ COTS  ☐ COTS+  ☐ HI-REL  ☐ Other |  |

**3) MECHANICAL DETAILS**

Each instrument is comprised of a 19” standard rack-mount aluminum enclosure chassis and all necessary low noise components needed to form a complete system. Please select the preferred configuration below for consideration during the final design process:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Height** | **Depth** | **Front Panel** | **Monitor**  **LEDs on Front Panel** | **Monitor**  **DB Connector**  Monitor Signals Provided  (Same as LED selection) | **Cooling** | **Weight** | **Mounting** |
| ☐ No Preference  ☐ 1U (1.75”)  ☐ 2U (3.5”)  ☐ 3U (5.25”)  ☐ 5U (8.75”)  ☐ Other | ☐ No Preference  ☐ 8” max  ☐ 17” max  ☐ 22” max  ☐ 26” max  ☐ Other | ☐ Painted White with Black Lettering  ☐ Painted Black with White Lettering  ☐ FED Color Code:  ☐ Other | ☐ No Preference  ☐ Power On  ☐ External Reference Detect  ☐ Phase Lock Detect(s)  ☐ Output Level Detect(s)  ☐ Rail Detect(s)  ☐ Oven Monitor Detect(s)  ☐ Global Alarm  ☐ Other | ☐ Not Required  ☐ 9-pin  ☐ 15-pin  ☐ 25-pin  ☐ TTL(5V)  ☐ LVTTL(2.5V)  ☐ CMOS(3.3V)  ☐ Other | ☐ No Preference  ☐ Include fan(s)  ☐ Include vent holes (front panel)  ☐ Include vent holes (floor & lid) | ☐ No Preference  ☐ < 25 lbs., goal  ☐ < 35 lbs., goal  ☐ < 50 lbs., goal  ☐ Other | ☐ Front panel holes & rear rack  support bracket\*  ☐ Provisions for mounting slides;  customer provides slides  ☐ Wenzel provides specified slides  with instrument  ☐ Slide Details: |

\* It is not recommended to support instruments weighing >5 lbs. using front panel mounting holes alone. A customer-supplied bracket is suggested to support the weight at the rear of the instrument.

**4) SUPPLY VOLTAGE** **5) TEST DATA PROVIDED**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **AC Supply** | **DC Supply** | **Maximum Current** |  | **Standard Electrical Tests** | | **Other Testing Required** |
| ☐ N/A  ☐ 115 VAC ±10%, 50/60 Hz  ☐ 230 VAC ±10%, 50/60 Hz  ☐ Other | ☐ N/A  ☐ +15 VDC ±5%  ☐ +18 VDC ±5%  ☐ +28 VDC ±5%  ☐ +48 VDC ±5%  ☐ Other | ☐ No Preference  ☐ 2 Amps  ☐ 3 Amps  ☐ 4 Amps  ☐ 5 Amps  ☐ Other |  | ☐ N/A  ☐ Output Level(s)  ☐ Port-to-Port Isolation  ☐ Phase Noise L(f), Static  ☐ Other | ☐ Harmonics  ☐ Sub-Harmonics  ☐ Reference PLL Products  ☐ Spurious  ☐ Other | ☐ N/A  ☐  ☐  ☐  ☐  ☐ |

**6) ENVIRONMENT**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Operating Temperature Range** | **Storage Temperature Range** | **MTBF Prediction** | | | | **Other Environmental Conditions** | **MILITARY Specifications**  **(Standards, Methods, Procedures, etc.)** |
|  | **MTBF, goal** | **End Use Environment** | **Env**  **Temp** | **Duty Cycle** |
|  | ☐ No Preference  ☐ +25 ±10°C  ☐ 0 to +50°C  ☐ -20 to +70°C  ☐ Other | ☐ No Preference  ☐ -20 to +70°C  ☐ -40 to +85°C  ☐ -55 to +90°C  ☐ Other | ☐ N/A  ☐ ≥ 20k Hrs  ☐ ≥ 50k Hrs  ☐ ≥ 100k Hrs  ☐ Other | ☐ GB ☐ AIC  ☐ GF ☐ AIF  ☐ GM ☐ AUC  ☐ NS ☐ AUF  ☐ NU ☐ ARW  ☐ Other | ☐ +25°C  ☐ +30°C  ☐ +40°C  ☐ +50°C  ☐ Other | ☐ 25%  ☐ 50%  ☐ 100%  ☐ Other | ☐ N/A  ☐  ☐  ☐  ☐  ☐ | ☐ N/A  ☐  ☐  ☐  ☐  ☐ |

**7) INPUT SPECIFICATIONS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Frequency**  (MHz) | **Signal Type** | **Input Level**  (Sine, into 50 ohms, dBm) | **Frequency Accuracy** | **Connector Type** | **Connector Location** | **Phase Noise L(f)**  **dBc/Hz** | | | | **Harmonics** | **Sub-Harmonics** | **Spurious** |
| ☐ N/A  ☐ 5 MHz  ☐ 10 MHz  ☐ Other | ☐ Sine  ☐ TTL (5V)  ☐ LVTTL (2.5V)  ☐ CMOS (3.3V)  ☐ Other | ☐ N/A  ☐ 0 to +15  ☐ 0 ±3  ☐ +10 ±2  ☐ +13 ±2  ☐ +7 ±6  ☐ Other | ☐ ≤ ±2E-9  ☐ ≤ ±5E-8  ☐ ≤ ±5E-7  ☐ ≤ ±2E-6  ☐ Other | ☐ SMA(f)  ☐ BNC(f)  ☐ TNC(f)  ☐ N-Type(f)  ☐ Other | ☐ Front Panel  ☐ Rear Panel | ☐ Unknown  ☐ from Wenzel P/N:  ☐ from other source: | | | | ☐ Unknown  ☐ -20 dBc  ☐ -30 dBc  ☐ -40 dBc  ☐ -50 dBc  ☐ -80 dBc  ☐ Other | ☐ Unknown  ☐ N/A  ☐ -40 dBc  ☐ -50 dBc  ☐ -60 dBc  ☐ -80 dBc  ☐ Other | ☐ Unknown  ☐ -70 dBc  ☐ -80 dBc  ☐ -100 dBc  ☐ Other |
| 1Hz: |  | 10kHz: |  |
| 10Hz: |  | 100kHz: |  |
| 100Hz: |  | 1MHz: |  |
| 1kHz: |  | 10MHz: |  |

**8) OUTPUT SPECIFICATIONS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Frequency**  (MHz) | **Signal Type** | **Output Level**  (Sine, into 50 ohms, each output, dBm) | **No. of Outputs** | **Port-to-Port Isolation** | **Connector Type** | **Connector Location** | **Phase Noise L(f)**  **dBc/Hz** | | | | **Harm-onics** | **Sub-Harm-onics** | **Ref PLL Products** (when phase locked) | **Spurious** (excluding power supply line spurs) |
| **Output A** |  | ☐ Sine  ☐ TTL (5V)  ☐ LVTTL (2.5V)  ☐ LVDS  ☐ Other | ☐ N/A  ☐ +10 ±2  ☐ +13 ±2  ☐ +16 ±2  ☐ +20 ±2  ☐ Other | ☐ 1  ☐ Other | ☐ N/A  ☐ ≥ 20 dB  ☐ Other | ☐ SMA(f)  ☐ BNC(f)  ☐ TNC(f)  ☐ N-Type(f)  ☐ Other | ☐ Front  ☒ Rear | ☐ Standard (Good, $)  ☐ ULN (Better, $$)  ☐ Golden (Best, $$$)  ☐ Specify Goal: | | | | ☐ -20 dBc  ☐ -30 dBc  ☐ -40 dBc  ☐ -50 dBc  ☐ -80 dBc  ☐ Other | ☐ N/A  ☐ -40 dBc  ☐ -50 dBc  ☐ -60 dBc  ☐ -80 dBc  ☐ Other | ☐ N/A  ☐ -50 dBc  ☐ -60 dBc  ☐ -80 dBc  ☐ Other | ☐ -70 dBc  ☐ -80 dBc  ☐ -100 dBc  ☐ Other |
| 1Hz: |  | 10kHz: |  |
| 10Hz: |  | 100kHz: |  |
| 100Hz: |  | 1MHz: |  |
| 1kHz: |  | 10MHz: |  |
| **Output B** |  | ☐ Sine  ☐ TTL (5V)  ☐ LVTTL (2.5V)  ☐ LVDS  ☐ Other | ☐ N/A  ☐ +10 ±2  ☐ +13 ±2  ☐ +16 ±2  ☐ +20 ±2  ☐ Other | ☐ 1  ☐ Other | ☐ N/A  ☐ ≥ 20 dB  ☐ Other | ☐ SMA(f)  ☐ BNC(f)  ☐ TNC(f)  ☐ N-Type(f)  ☐ Other | ☐ Front  ☐ Rear | ☐ Standard (Good, $)  ☐ ULN (Better, $$)  ☐ Golden (Best, $$$)  ☐ Specify Goal: | | | | ☐ -20 dBc  ☐ -30 dBc  ☐ -40 dBc  ☐ -50 dBc  ☐ -80 dBc  ☐ Other | ☐ N/A  ☐ -40 dBc  ☐ -50 dBc  ☐ -60 dBc  ☐ -80 dBc  ☐ Other | ☐ N/A  ☐ -50 dBc  ☐ -60 dBc  ☐ -80 dBc  ☐ Other | ☐ -70 dBc  ☐ -80 dBc  ☐ -100 dBc  ☐ Other |
| 1Hz: |  | 10kHz: |  |
| 10Hz: |  | 100kHz: |  |
| 100Hz: |  | 1MHz: |  |
| 1kHz: |  | 10MHz: |  |
| **Output C** |  | ☐ Sine  ☐ TTL (5V)  ☐ LVTTL (2.5V)  ☐ LVDS  ☐ Other | ☐ N/A  ☐ +10 ±2  ☐ +13 ±2  ☐ +16 ±2  ☐ +20 ±2  ☐ Other | ☐ 1  ☐ Other | ☐ N/A  ☐ ≥ 20 dB  ☐ Other | ☐ SMA(f)  ☐ BNC(f)  ☐ TNC(f)  ☐ N-Type(f)  ☐ Other | ☐ Front  ☐ Rear | ☐ Standard (Good, $)  ☐ ULN (Better, $$)  ☐ Golden (Best, $$$)  ☐ Specify Goal: | | | | ☐ -20 dBc  ☐ -30 dBc  ☐ -40 dBc  ☐ -50 dBc  ☐ -80 dBc  ☐ Other | ☐ N/A  ☐ -40 dBc  ☐ -50 dBc  ☐ -60 dBc  ☐ -80 dBc  ☐ Other | ☐ N/A  ☐ -50 dBc  ☐ -60 dBc  ☐ -80 dBc  ☐ Other | ☐ -70 dBc  ☐ -80 dBc  ☐ -100 dBc  ☐ Other |
| 1Hz: |  | 10kHz: |  |
| 10Hz: |  | 100kHz: |  |
| 100Hz: |  | 1MHz: |  |
| 1kHz: |  | 10MHz: |  |
| **Output D** |  | ☐ Sine  ☐ TTL (5V)  ☐ LVTTL (2.5V)  ☐ LVDS  ☐ Other | ☐ N/A  ☐ +10 ±2  ☐ +13 ±2  ☐ +16 ±2  ☐ +20 ±2  ☐ Other | ☐ 1  ☐ Other | ☐ N/A  ☐ ≥ 20 dB  ☐ Other | ☐ SMA(f)  ☐ BNC(f)  ☐ TNC(f)  ☐ N-Type(f)  ☐ Other | ☐ Front  ☐ Rear | ☐ Standard (Good, $)  ☐ ULN (Better, $$)  ☐ Golden (Best, $$$)  ☐ Specify Goal: | | | | ☐ -20 dBc  ☐ -30 dBc  ☐ -40 dBc  ☐ -50 dBc  ☐ -80 dBc  ☐ Other | ☐ N/A  ☐ -40 dBc  ☐ -50 dBc  ☐ -60 dBc  ☐ -80 dBc  ☐ Other | ☐ N/A  ☐ -50 dBc  ☐ -60 dBc  ☐ -80 dBc  ☐ Other | ☐ -70 dBc  ☐ -80 dBc  ☐ -100 dBc  ☐ Other |
| 1Hz: |  | 10kHz: |  |
| 10Hz: |  | 100kHz: |  |
| 100Hz: |  | 1MHz: |  |
| 1kHz: |  | 10MHz: |  |
| **Output E** |  | ☐ Sine  ☐ TTL (5V)  ☐ LVTTL (2.5V)  ☐ LVDS  ☐ Other | ☐ N/A  ☐ +10 ±2  ☐ +13 ±2  ☐ +16 ±2  ☐ +20 ±2  ☐ Other | ☐ 1  ☐ Other | ☐ N/A  ☐ ≥ 20 dB  ☐ Other | ☐ SMA(f)  ☐ BNC(f)  ☐ TNC(f)  ☐ N-Type(f)  ☐ Other | ☐ Front  ☐ Rear | ☐ Standard (Good, $)  ☐ ULN (Better, $$)  ☐ Golden (Best, $$$)  ☐ Specify Goal: | | | | ☐ -20 dBc  ☐ -30 dBc  ☐ -40 dBc  ☐ -50 dBc  ☐ -80 dBc  ☐ Other | ☐ N/A  ☐ -40 dBc  ☐ -50 dBc  ☐ -60 dBc  ☐ -80 dBc  ☐ Other | ☐ N/A  ☐ -50 dBc  ☐ -60 dBc  ☐ -80 dBc  ☐ Other | ☐ -70 dBc  ☐ -80 dBc  ☐ -100 dBc  ☐ Other |
| 1Hz: |  | 10kHz: |  |
| 10Hz: |  | 100kHz: |  |
| 100Hz: |  | 1MHz: |  |
| 1kHz: |  | 10MHz: |  |