**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: |  |