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:  Click here to enter a 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** | | | | **Harmonics** | **Sub-Harmonics** | **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: |  |