



Specification for a Sinewave Output Thru-Hole OCXO MtronPTI P/N: XO5085-106R

Electrical Specifications:

| Parameter | Symbol | Min. | Тур. | Max. | Units | Conditions |
|------------------------------|--------|--------|-----------------|----------|-----------------|---|
| Nominal Frequency | Fo | | 100.000000 | | MHz | |
| | | F | Frequency Stab | oilities | | |
| vs. Temperature | ∆F⊤/F | -100 | | +100 | ppb | Over the Operating Temperature Range |
| vs. Supply voltage variation | | -30 | | +30 | ppb | +/-250mV change in supply voltage |
| Daily Aging | | -5 | | +5 | ppb | |
| 1 Year Aging | | -0.5 | | +0.5 | ppm | After 30-days Power On |
| 20-Years Aging | | -1.25 | | +1.25 | ppm | |
| Retrace | | -20 | | -20 | ppb | After 30-minutes power on following 24-hours off |
| | | | RF Output | | | |
| Output Type | | | Sinewave | | | |
| Output Level | | | +10 | +15.0 | dBm | |
| Output Load | | | 50 | | Ω | ±10% |
| | | F | requency Adjus | stment | | |
| Adjustment Method | | | External | | | |
| Adjustment Voltage | VTUNE | 0 | | +10 | V _{DC} | |
| Adjustment Range | | +/-1.0 | | | ppm | Over all conditions |
| Adjustment Slope | | | Posit | ive | | |
| | | Α | dditional Parar | neters | | |
| | | | | -100 | dBc/Hz | 10Hz Offset |
| Phase Noise | | | | -130 | dBc/Hz | 100Hz Offset |
| (Under Static | | | | -155 | dBc/Hz | 1kHz Offset |
| Conditions) | | | | -165 | dBc/Hz | 10kHz Offset |
| | | | | -168 | dBc/Hz | 100kHz Offset |
| Harmonics | | | | -30 | dBc | |
| Spurious | | | | -75 | dBc | |
| Warm-up Time | | | | 5 | minutes | To within ±0.1ppm of the frequency after 1-hour of operation @ 25°C |
| | | | pply Voltage & | | | |
| Operating Temperature | OTR | -40 | | +85 | °C | Full Specification Compliance |
| Storage Temperature | STR | -55 | | +85 | 0° | |
| Operating Voltage | Vcc | +11.4 | +12.0 | +12.6 | VDC | |
| Power Consumption | | | 1.0 | | Watts | Steady state @ 25°C, In Still Air |
| | | | | 3.6 | Watts | @ Warm-up |



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Environmental Conditions:

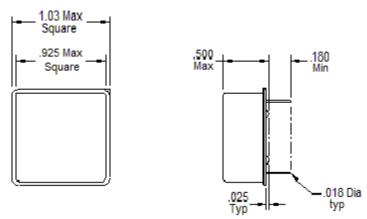
| Seal | Hermetic |
|------|----------------------|
| RoHS | Full RoHS Compliance |

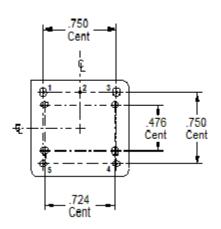
Mechanical, Marking and Layout Information:

| Part Marking | |
|--------------|---------------|
| Line 1 | MtronPTI |
| Line 2 | XO5085-106R |
| Line 3 | 100.0000MHz |
| Line 4 | Serial Number |
| Line 5 | Date Code |

| Legend | | |
|--------|-----------|--|
| уу | Year | |
| ww | Work Week | |
| | | |

| Pin | Function |
|-----|-------------------|
| 1 | RF Output |
| 2 | Case Ground |
| 3 | V _{TUNE} |
| 4 | N/C |
| 5 | Supply Voltage |





Data Sheet Revision Table:

| Date | Rev. | Orig. | Details of Revision |
|----------|------|-------|---------------------|
| 01-30-19 | А | DPD | Original release |