

Test Verification/Data Alternatives from Cross Technologies.

Cross Technologies, Inc. offers two alternatives for Test Data on our **FREQUENCY CONVERTER** units. We offer a NO CHARGE Test Tag solution and a \$300.00 Optional full Test Data solution. These are described below.

Test Tags

Test Tags, see representative samples below, are attached to every unit through the production process. At the Final Assembly & Test point, we perform verification 'check-offs' indicating that each Specification is met (or exceeded) and that each Feature/Capability (Step Size, Alarms, Remote Communications, etc.) is functioning as designed. If you would like a NO CHARGE copy of the Test Tag(s) for your units, please request them with your PO. We do not 'automatically' copy and provide these Test Tags with each unit.

○
2015 - _____
S/N _____
TEST BY _____
DATE _____
UP
___ 1) IF FLATNESS
___ 2) MUTE
___ 3) ATTEN LIN.
___ 4) RF FLATNESS
___ 5) RF SPURIOUS
___ 6) PHASE NOISE
COMMON
Firmware REV _____
___ 1) REMOTE
___ 2) ALARM
___ 3) RETURN LOSS
___ 4) FREQ. ACCURACY
OPTIONS
___ 1) EXT 10 MHz
___ IN SENSITIVITY
___ OUTPUT LEVEL
___ INSERT. LEVEL
___ 2) RS422/RS485
___ 3) TEMP MON
___ 4) _____
Cross Technologies, Inc.

○
2016 - _____
S/N _____
TEST BY _____
DATE _____
DOWN
___ 1) RF RESPONSE
___ 2) IF RESPONSE
___ 3) ATTENUATOR
___ 4) SPEC IN VERT
___ 5) PHASE NOISE
___ 6) SPURIOUS
COMMON
Firmware REV _____
___ 1) REMOTE
___ 2) ALARM
___ 3) RETURN LOSS
___ 4) FREQ. ACCURACY
OPTIONS
___ 1) EXT 10 MHz
___ IN SENSITIVITY
___ OUTPUT LEVEL
___ INSERT. LEVEL
___ 2) RS422/RS485
___ 3) TEMP MON
___ 4) _____
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Test Data, (Option W16), \$300.00 per unit.

The second alternative is to 'order' Test Data on your purchase order. This is our Option W16 (Individual Test Data) and the cost is a flat rate, \$300.00 per unit. The Definition/Description of Option W16 is as follows:

If more extensive Test Data information for **FREQUENCY CONVERTERS** is required, we offer Option W16 (Individual Test Data) that provides Test Data measurements to be taken and recorded and Plots (pictures) provided (where appropriate) for the following Specification items. [Copy of Test Data to be provided with each unit Serial Number.]

- 1) Return Loss (In & Out)
- 2) Noise Figure

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The following Specifications will be tested (and recorded) @ Low, Mid & High points of Frequency Range:

- 1) Phase Noise
- 2) Gain (Gain Stability)
- 3) Spurious
- 4) 1 dB compression point
- 5) Intermodulation
- 6) Gain Flatness @ Min, Mid and Max Gain settings

Test Verification "OK" data (not actual values) to be recorded for the following specifications:

- 1) Frequency steps (xx MHz or KHz as ordered)
- 2) Remote Functionality
- 3) Alarm Functionality
- 4) Frequency Accuracy
- 5) Attenuator steps
- 6) 10 MHz Ext Reference In (if Option ordered)
- 7) 10 MHz Reference Out (if Option ordered)
- 8) I F Monitor (if Option ordered)
- 9) RF Monitor (if Option ordered)
- 10) LO1 Monitor (if Option ordered)

Test Data / Test Tag - Multiple Unit Purchase Alternative.

Some customers, who are purchasing multiple numbers of the same model unit, have chosen to purchase only one (1) Test Data Option, per multi-unit order and request the NO CHARGE Test Tag's for the remainder of the order. This gives them a 'representative' sample of the units' performance within the multiple units purchased on that PO, and saves them the additional cost of Test Data for every additional unit.