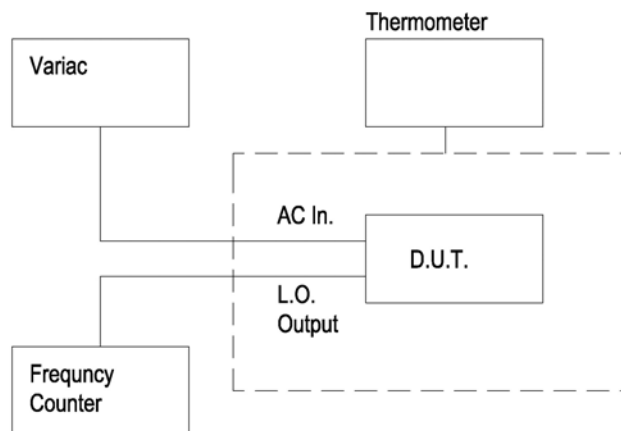


BZ5MXI401U  
 Application for Certification  
 Modulator Input  
 500 Watt UHF Translator

**Frequency Drift versus Temperature.**

| READINGS     |      |                        |            |            |               |          |
|--------------|------|------------------------|------------|------------|---------------|----------|
| CALCULATION  |      |                        |            |            |               |          |
|              |      | LOCAL OSC'R FREQ (MHZ) |            |            | DEV. FROM REF |          |
| TEMP (DEG C) | VAC= | 187                    | 220        | 253        | (Hz)          | (%)      |
| 25 (REF)     |      | 555.249643             | 555.249643 | 555.249643 | 0.000000      | 0.000000 |
| -30          |      | 555.249600             | 555.249600 | 555.249600 | 0.000043      | 0.000008 |
| -20          |      | 555.249401             | 555.249401 | 555.249401 | 0.000242      | 0.000044 |
| -10          |      | 555.249274             | 555.249274 | 555.249274 | 0.000369      | 0.000066 |
| 0            |      | 555.249330             | 555.249330 | 555.249330 | 0.000313      | 0.000056 |
| 10           |      | 555.249475             | 555.249475 | 555.249475 | 0.000168      | 0.000030 |
| 20           |      | 555.249598             | 555.249598 | 555.249598 | 0.000045      | 0.000008 |
| 30           |      | 555.249782             | 555.249782 | 555.249782 | 0.000139      | 0.000025 |
| 40           |      | 555.249949             | 555.249949 | 555.249949 | 0.000306      | 0.000055 |
| 50           |      | 555.249856             | 555.249856 | 555.249856 | 0.000213      | 0.000038 |



**Test Setup Block Diagram**

**Test Equipment List:**

Frequency Counter – Hewlett Packard HP5385A S/N 3242A07335  
 Thermostatically Controlled Temperature Chamber – Cincinnati Sub-Zero