DATE 14 Jar SHEET 1	or2	TMC SPECIFICATION NO. 5-807	
BDP COMPILED	CHECKED	TITLE:	
KATAPPR	OVEDBP		

TMC TEST SPECIFICATION

for

CR-109 CRYSTALS

DATE 14 January 1964 SHEET 2 OF 2	TMC SPECIFICATION NO. S-807	
COMPILED CHECKED	TITLE: TMC TEST SPECIFICATION FOR CR-109 CRYSTALS	
APPROVED		·····

- 1. Use RFL CI meter and adjust in the following manner:
 - a. Set CI meter on series resonance.
- b. Insert a crystal to be tested in CI meter and tune to maximum indication on activity meter.
- c. Remove crystal and insert required resistance in CI meter crystal socket (calibrated to resistance +2%).
- d. Adjust level of drive until the specified power is achieved (note level on meter).
 - e. Set frequency of oscillator using frequency counter.
- f. Insert special crystal holder with 10 pf series capacitor (calibrated to .1 pf on Q meter).
 - g. Insert crystal to be tested into socket of crystal holder.
- h. Measure activity of crystal by noting level on meter. Level must be equal or greater than that achieved in Step 'd'.
- i. Count frequency of oscillation on counter. The frequency must be within tolerance.
- j. Accept all crystals which meet Steps 'h' & 'i'. Re-test all others as follows:
 - (1) Insert crystal in adjustable special crystal holder.
- (2) Adjust control on crystal holder until frequency is exactly that stamped on can of crystal. Use 10 second count on low frequencies to get accuracy.
- (3) Check activity. If meter reads equal or greater than that in Step 'd', accept crystal. If activity does not reach that of Step 'd', reject crystal unit.
 - k. If equipment is used for extended periods, re-check setup every hour.