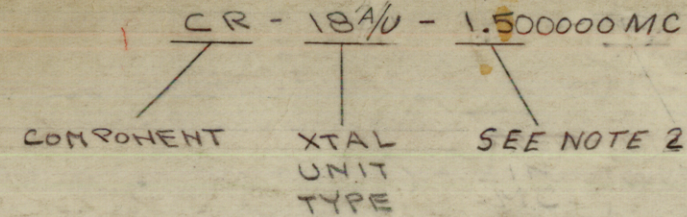


IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

STANDARD DRAWING

TYPE DESIGNATION TO BE IN FOLLOWING FORM.

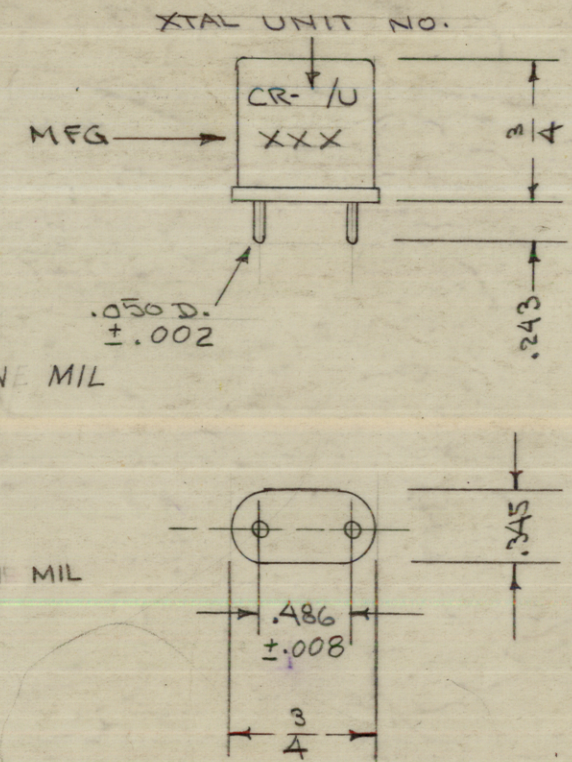


CRYSTAL UNIT QUARTZ (TYPE)	HOLDER TYPE	FREQUENCY RANGE NOMINAL (KC-SEC)	FREQ. TOL. %	OPERABLE TEMP. RANGE #	OPERATING TEMP. RANGE	XTAL UNIT MAX. CAP. (μm.f)	RESONANCE	LOAD CAP. (μm.f)
CR-18 <sup>A</sup> /U	HC-6/U	800-20,000	±.005	----	-55° to +90°	7.0	PARALLEL	32.0 ± 0.5
CR-19 <sup>A</sup> /U	"	800-20,000	±.005	----	-55° to +90°	7.0	SERIES	---
CR-23/U	"	10,000-75,000	±.005	----	-55° to +90°	7.0	"	---
CR-25 <sup>A</sup> /U	"	200-500	±.010	----	-40° to +70°	---	"	---
CR-26 <sup>A</sup> /U	"	200-500	±.002	-40° to +80°	75° ± 5°	---	"	---
CR-27 <sup>A</sup> /U	"	800-20,000	±.002	-55° to +90°	75° ± 5°	7.0	PARALLEL	32.0 ± 0.5
CR-28 <sup>A</sup> /U	"	800-20,000	±.002	-55° to +90°	75° ± 5°	7.0	SERIES	---
CR-32 <sup>A</sup> /U	"	10,000-75,000	±.002	-55° to +90°	75° ± 5°	7.0	"	---
CR-33 <sup>A</sup> /U*	"	10,000-25,000	±.005	----	-55° to +90°	12.0	PARALLEL	32.0 ± 0.5
CR-35 <sup>A</sup> /U	"	800-20,000	±.002	-55° to +90°	85° ± 5°	7.0	SERIES	---
CR-36 <sup>A</sup> /U	"	800-20,000	±.002	-55° to +90°	85° ± 5°	7.0	PARALLEL	32.0 ± 0.5
CR-44/U*	"	15,000-20,000	±.002	-55° to +90°	85° ± 5°	7.0	"	32 ± 0.5
CR-45/U*	"	455	±6.02	---	-40° to +70°	7.5	SERIES	---
CR-46 <sup>A</sup> /U*	"	200-500	±0.01	---	-40° to +70°	---	PARALLEL	20 ± 0.5
CR-47 <sup>A</sup> /U*	"	200-500	±.002	-40° to +80°	75° ± 5°	---	"	20 ± 0.5
CR-48/U*	"	800-3,000	±.0075	---	-55° to +90°	7.0	"	32.0 ± 0.5

NON MIL

NON MIL

NON MIL



NOTE:

- CRYSTAL OPERATING FREQ. TO BE STAMPED ON TOP OF UNIT.
- FREQ. BELOW 1MC EXPRESS IN KC. FREQ. 1MC AND ABOVE EXPRESSED IN MC. IF FREQ. IS LESS THAN 10MC, FREQ. MARK SHALL CONSIST OF ALL DIGITS THROUGH CYCLES PER SECOND. IF FREQ. IS 10MC OR ABOVE, FREQ. MARK SHALL CONSIST OF THE FIRST SEVEN DIGITS.

EXAMPLES:

CR-XX/U-12.00000 MC  
 CR-XX/U-8.000000 MC  
 CR-XX/U-455.000 KC

\* SPECIAL APPLICATION TYPE

TEMPERATURE CONTROL XTAL UNITS HAVE A FREQ. TOL. OF ±0.002% AT 75° OR 85° C., WHICHEVER IS APPLICABLE. IN ADDITION, THESE UNITS, WHEN MEASURED OVER THE OPERATING TEMP. RANGE, SHALL NOT DEVIATE MORE THAN ±0.0005% FROM THE FREQ. VALUE MEASURED AT THE MID POINT OF THE OPERATING TEMP. RANGE.

# THE OPERABLE TEMP. RANGE IS DEFINED AS THE TEMP. RANGE OVER WHICH THE XTAL WILL OSCILLATE BUT NOT NECESSARILY WITHIN THE FREQ. TOL.

NOTICE TO PERSONS RECEIVING THIS DRAWING.

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 THE TECHNICAL MATERIEL CORPORATION  
 MAMARONECK, NEW YORK

REF: MIL-C-3098 SUP. 1

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP.	
		MAMARONECK, NEW YORK	
		CRYSTAL UNITS, QUARTZ	
		(IN HC-6/U HOLDERS)	
		CD. 4-25-55	
		DRAWN	ELEC. DES. APP. MECH. DES. APP.
		CHECKED	FINAL APPROVAL
		CR-18, 19, 23, 25, 26, 27, 28, 32, 33, 35, 36, 44, 45, 46, 47, 48	

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
D	1	NOTE 1 & 2 REV. B ADDED	1/6/66	1552A	R.V.	JCB	JCB
C	1	SEE EMN #10855	2/18/64	10855	A.M.	T.R.	T.R.
B	1	REDRAWN COMPLETE REVISION	4/2/64	2	EDD	AD	AD

TOLERANCES		SCALE:
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE