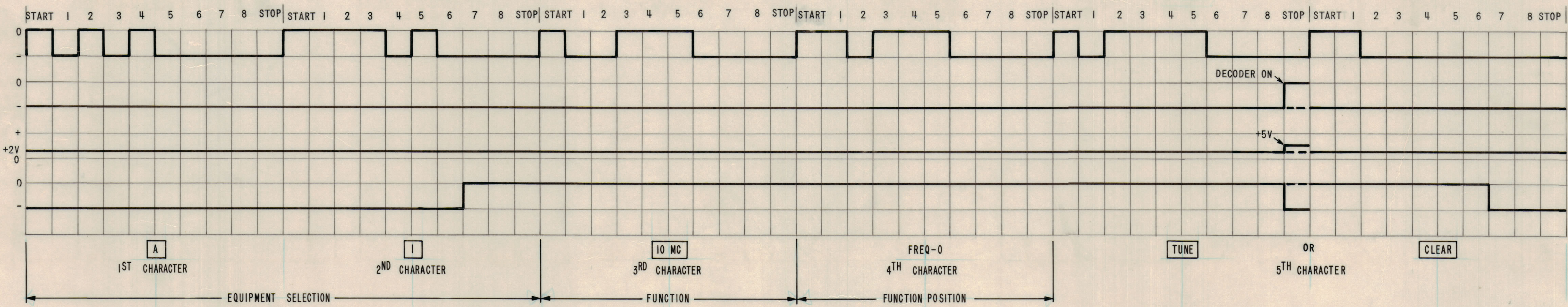
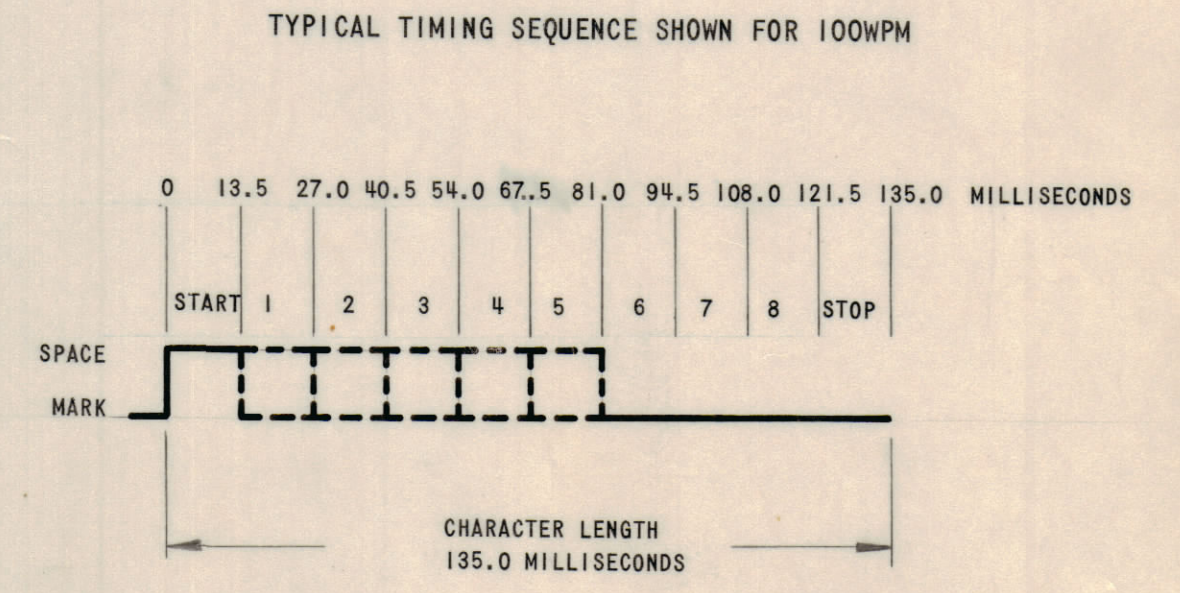
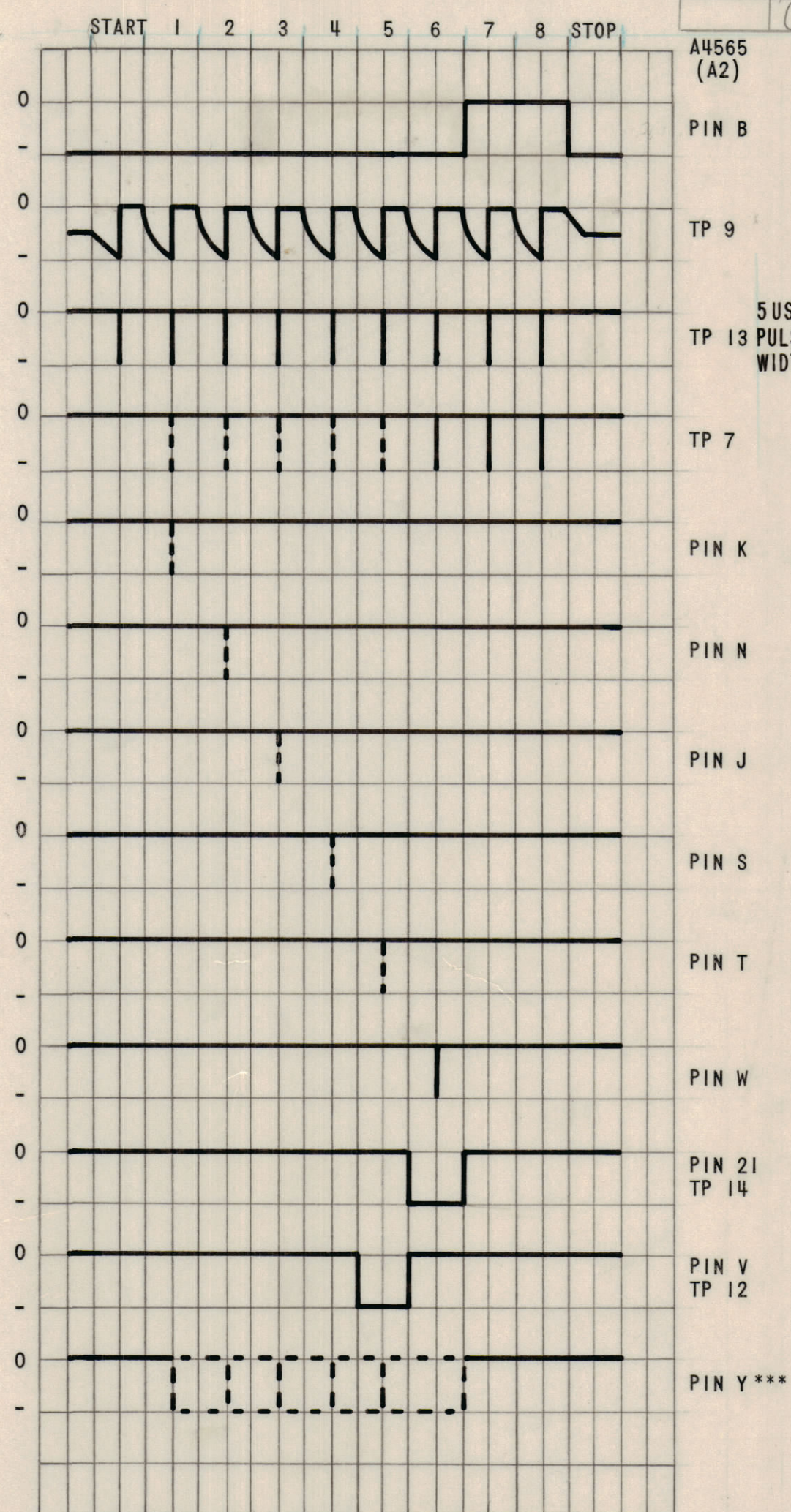
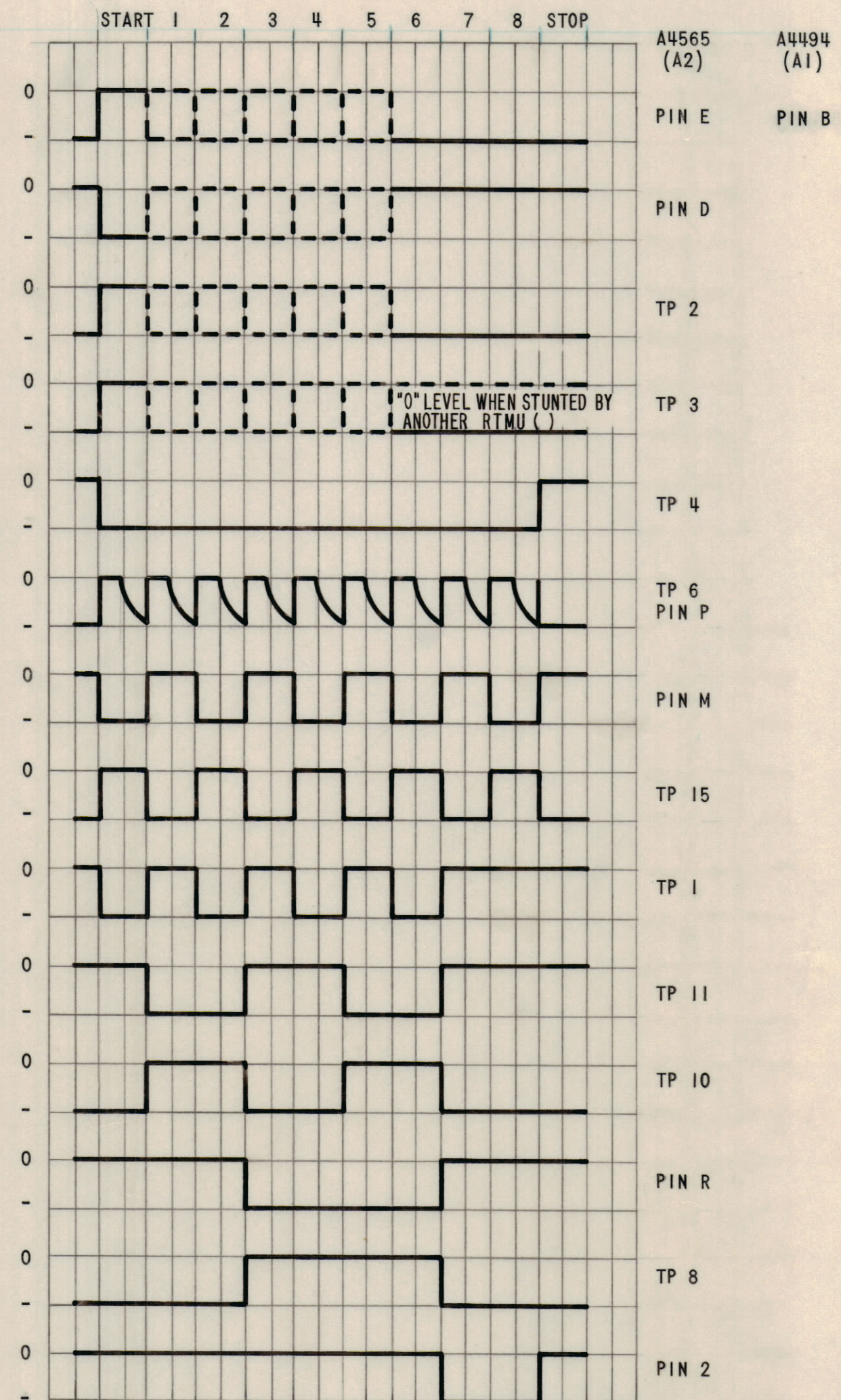
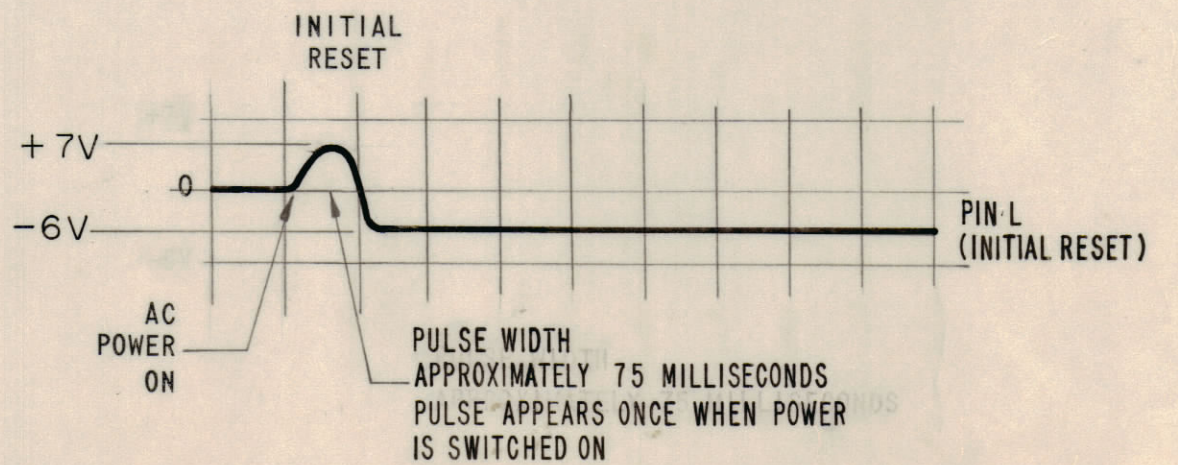


REVISIONS							
E.M.N.O	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	01			XI	CLARIFIED	9/22/70	
	02			0	ORIGINAL RELEASE FOR PRODUCTION	10/26/70	



\* LEVEL CHANGES ON TUNE COMMAND AND RETURNS TO NORMAL AFTER DECODER HAS COMPLETED PROGRAM.  
 \*\* STUNT LINE CONNECTED WHEN MORE THAN ONE RTMU IS USED ON THE SAME INPUT LOOP.  
 \*\*\* PULSES SEEN WHEN TERMINATED WITH A 1.2 K  $\Omega$  RESISTOR TO -12V

**FIG-4-13 SH1**



PINS A,Z,I,22 GND  
 PINS 7,8 0 VOLTAGE  
 PINS 4,F,C -12 VOLTS SUPPLY  
 PIN 20 +12 VOLTS SUPPLY  
 PINS U,X NOT USED

58%

QTY / UNIT	MODEL USED ON	ASS'Y NO.
	RTMU-41,42	A4565
APPLICATION		
CODE		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

TOLERANCES ON  
 DECIMALS X  $\pm$  .05  
 XX  $\pm$  .01  
 XXX  $\pm$  .005

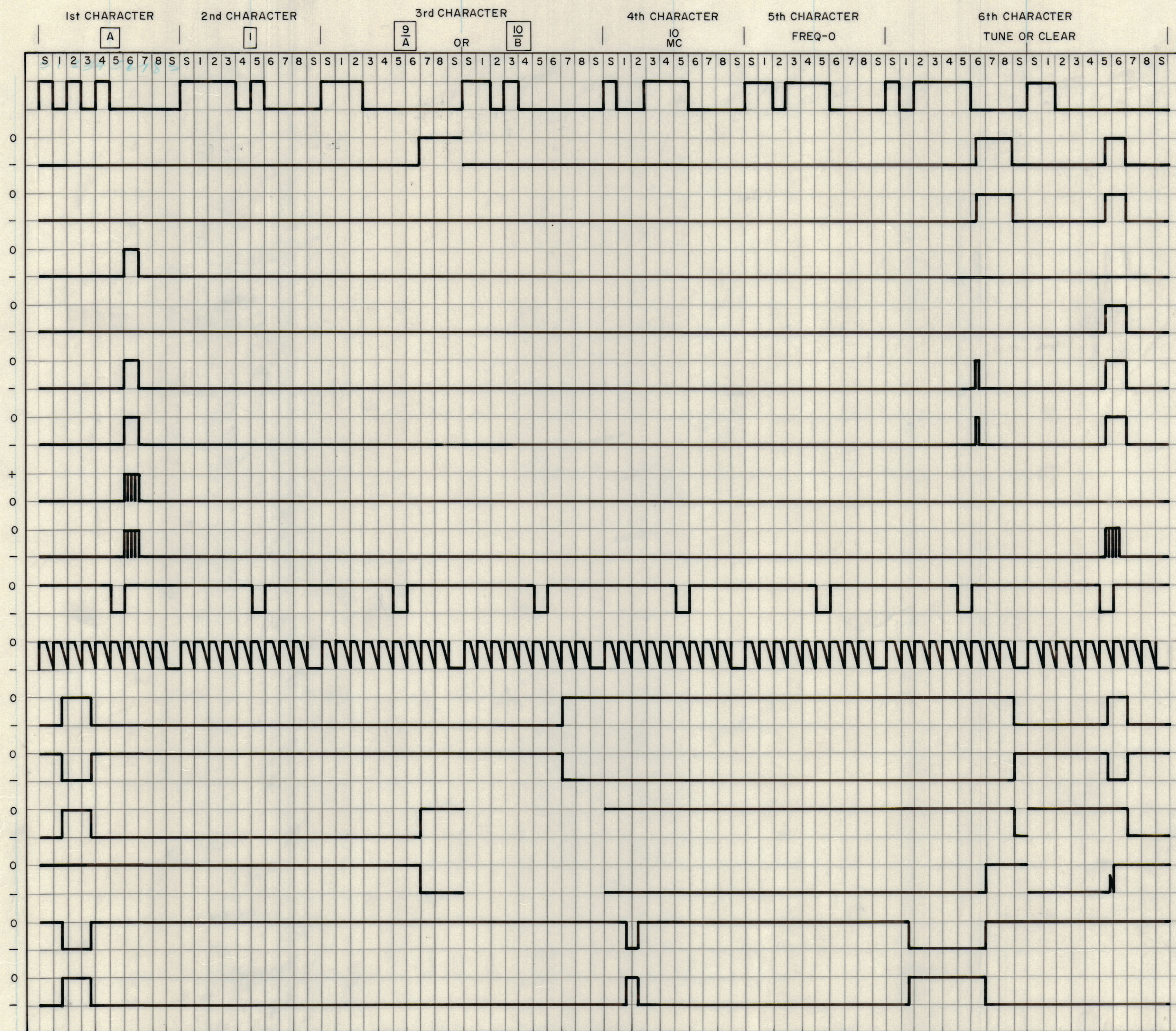
FRACTIONS  $\pm$  1/64  
 ANGLES  $\pm$  0' -30'

QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TIMING CHART A2 RTMU-41-42				
SIZE		CODE IDENT NO.	DWG NO.	ISSUE
D		82679	CH 802	0
SCALE				SHEET 1 OF 10

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REVISIONS							
E.M.N.NO	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	1			XI	CLARIFIED	9/20/70	
	0			0	ORIGINAL RELEASE FOR PRODUCTION	10/27/70	



60%

\* PULSE IS SEEN WHEN TERMINATED WITH A 1.2 K OHM RESISTOR TO -12V

FIG-4-13

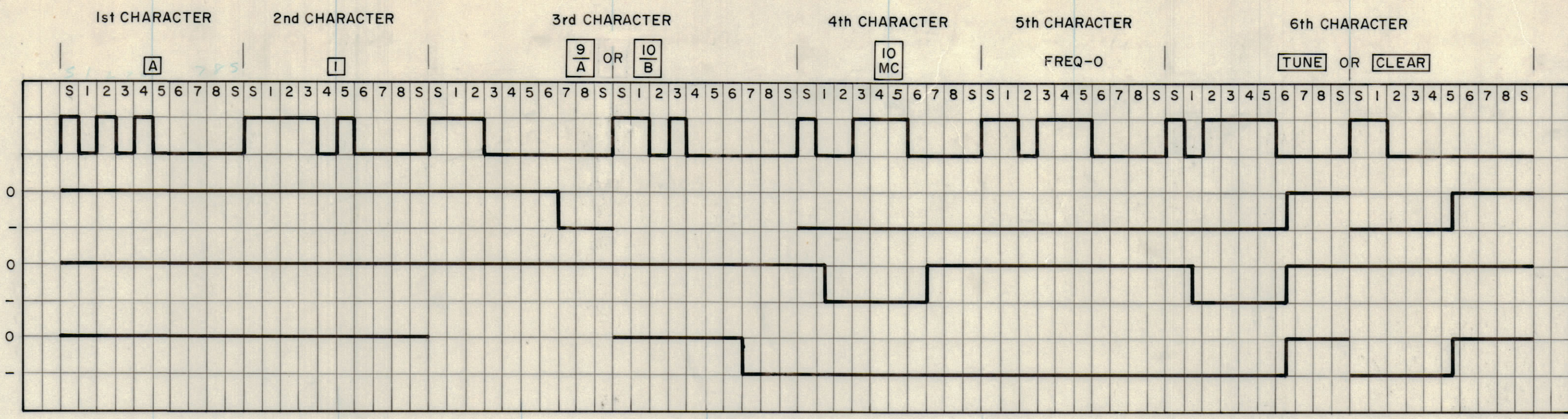
QTY / UNIT	RTMU	A 4570
APPLICATION		
CODE		
NOTICE TO PERSONS RECEIVING THIS DRAWING THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed herein. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown herein without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	
TOLERANCES ON	
DECIMALS	FRACTIONS
.X ± .05	= 1/64
.XX ± .01	ANGLES
.XXX ± .005	= 0° - 30°

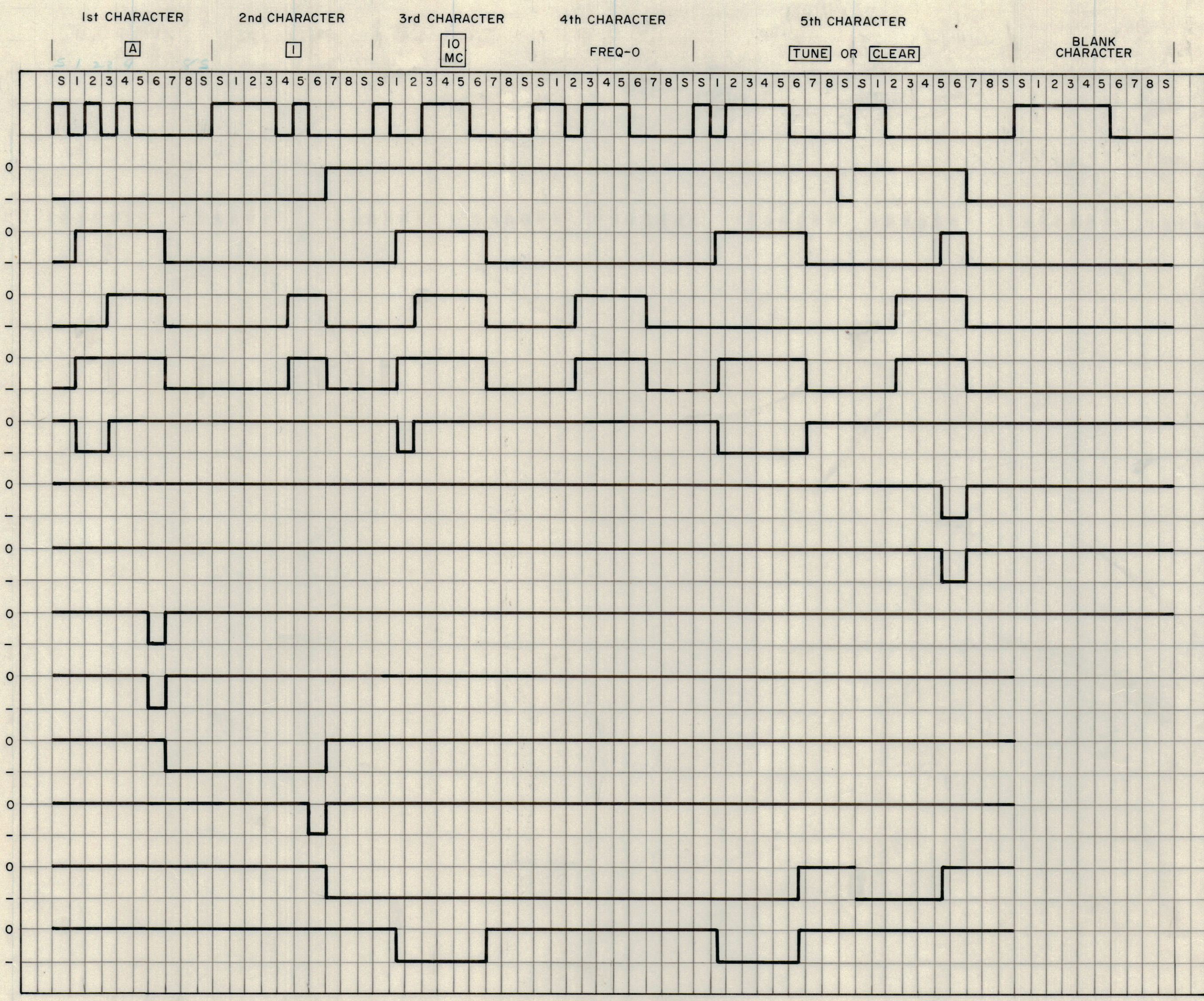
QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
FINAL APPROVAL			DATE	
MECH. DES.			DATE	
ELECT. DES.			DATE	
CHECKED			DATE	
DRAWN			DATE	
MATERIAL				
FINISH				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		TIMING CHART A9 RTMU-41, 42		
SIZE	CODE IDENT NO.	DWG NO.	ISSUE	
D	82679	CH802	0	
SCALE		SHEET 10 OF 10		



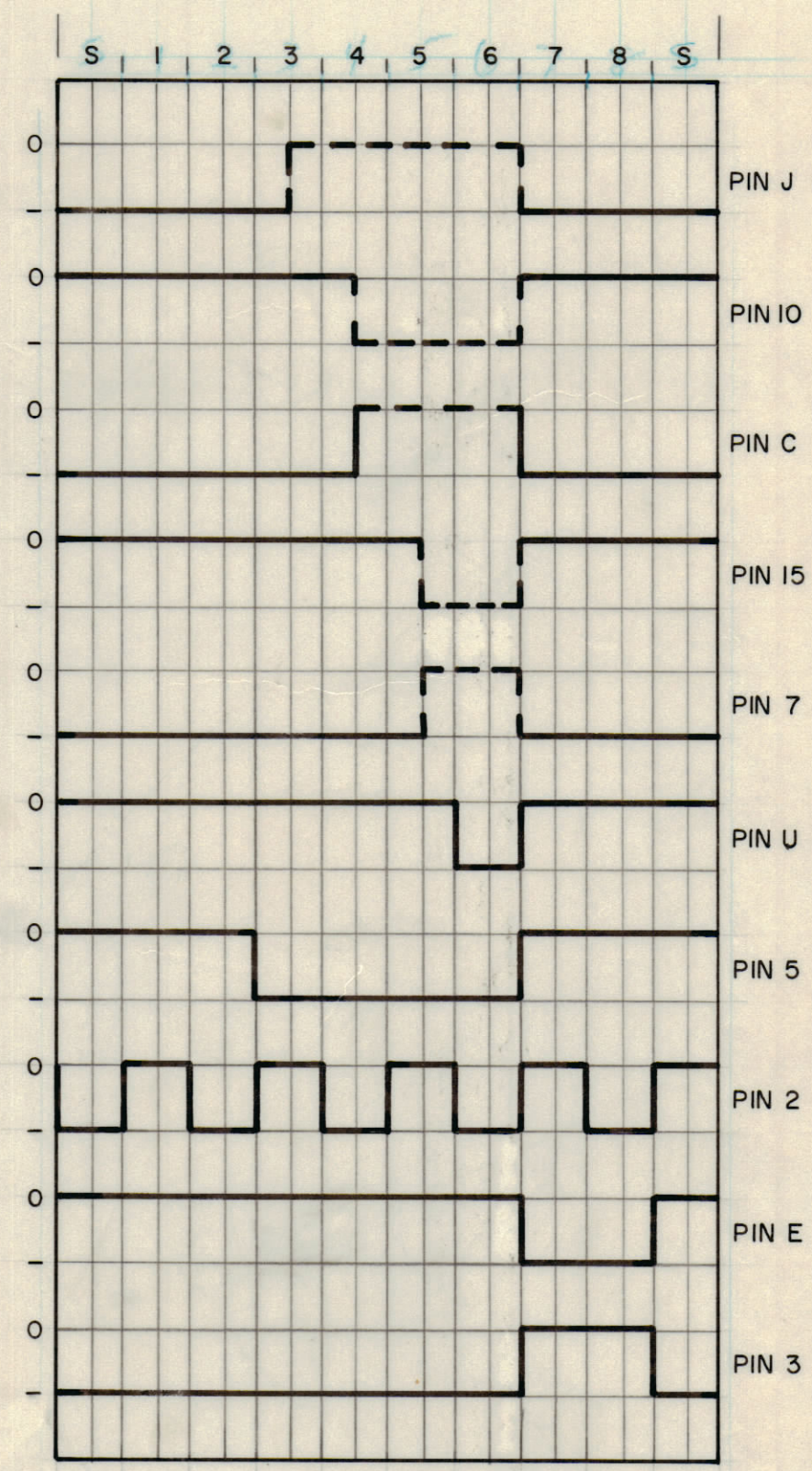
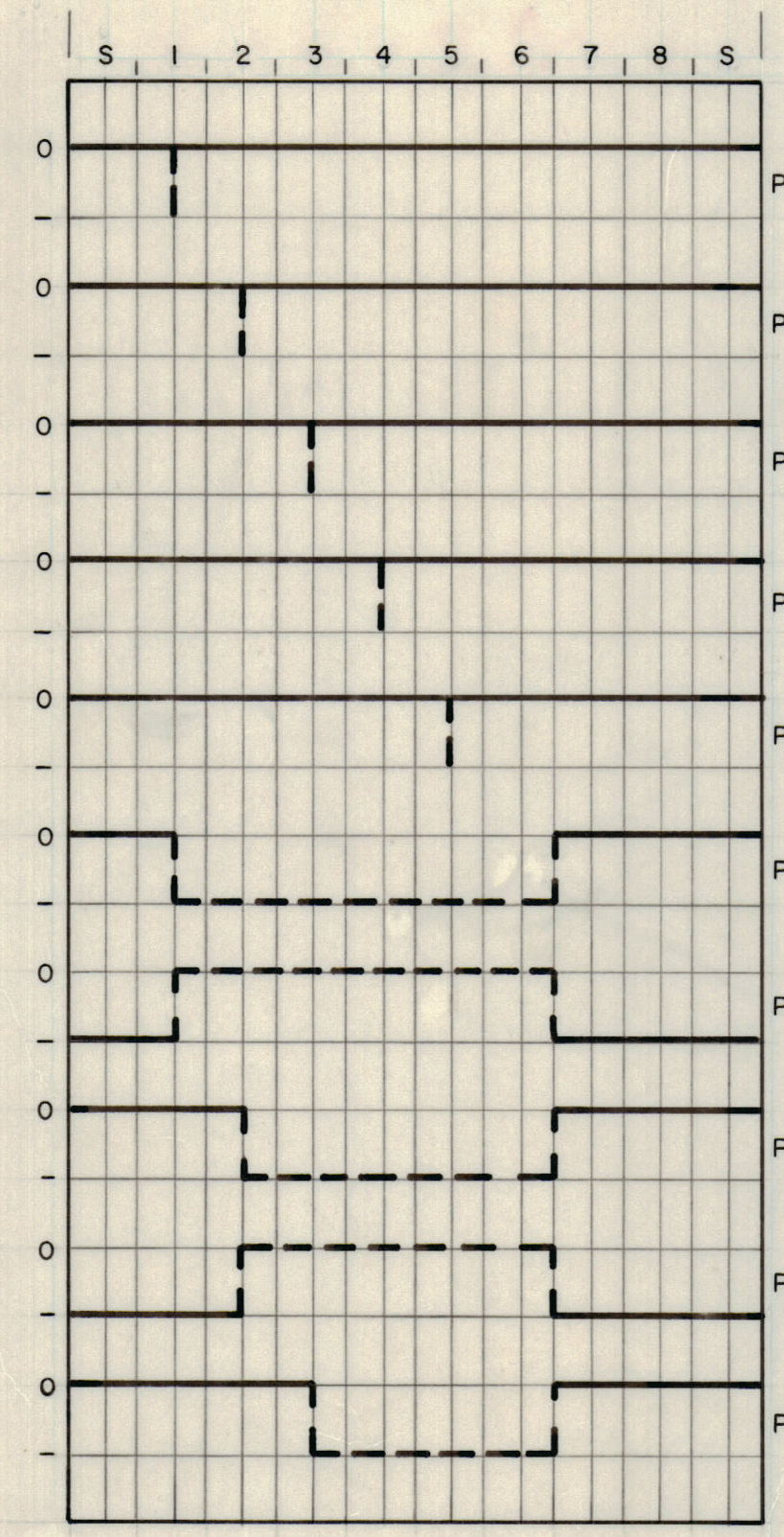
REVISIONS							
E.M.N.O	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
					XI CLARIFIED	10/26/70	
					ORIGINAL RELEASE FOR PRODUCTION	10/26/70	



INPUT CODES  
 PIN N 9/A  
 PIN R 9/A  
 PIN W 10/B  
 PIN T 10/B  
 RTMU-42



INPUT CODES  
 PIN Y  
 PIN 19  
 TP1  
 PIN 18  
 PIN 17  
 PIN 14  
 PIN 8  
 PIN S  
 TP3  
 TP2  
 PIN P  
 PIN N RTMU-41( )  
 PIN R RTMU-41( )



PINS A, Z, I, 22 GND  
 PIN 4 -12V SUPPLY  
 PIN 20 +12V SUPPLY  
 PIN 6 (REFER TO INITIAL RESET PULSE SHEET 1)

FIG-4-13 SHZ

5670

QTY / UNIT	MODEL USED ON	ASSY NO.
	RTMU	A4566
APPLICATION		
	CODE	

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

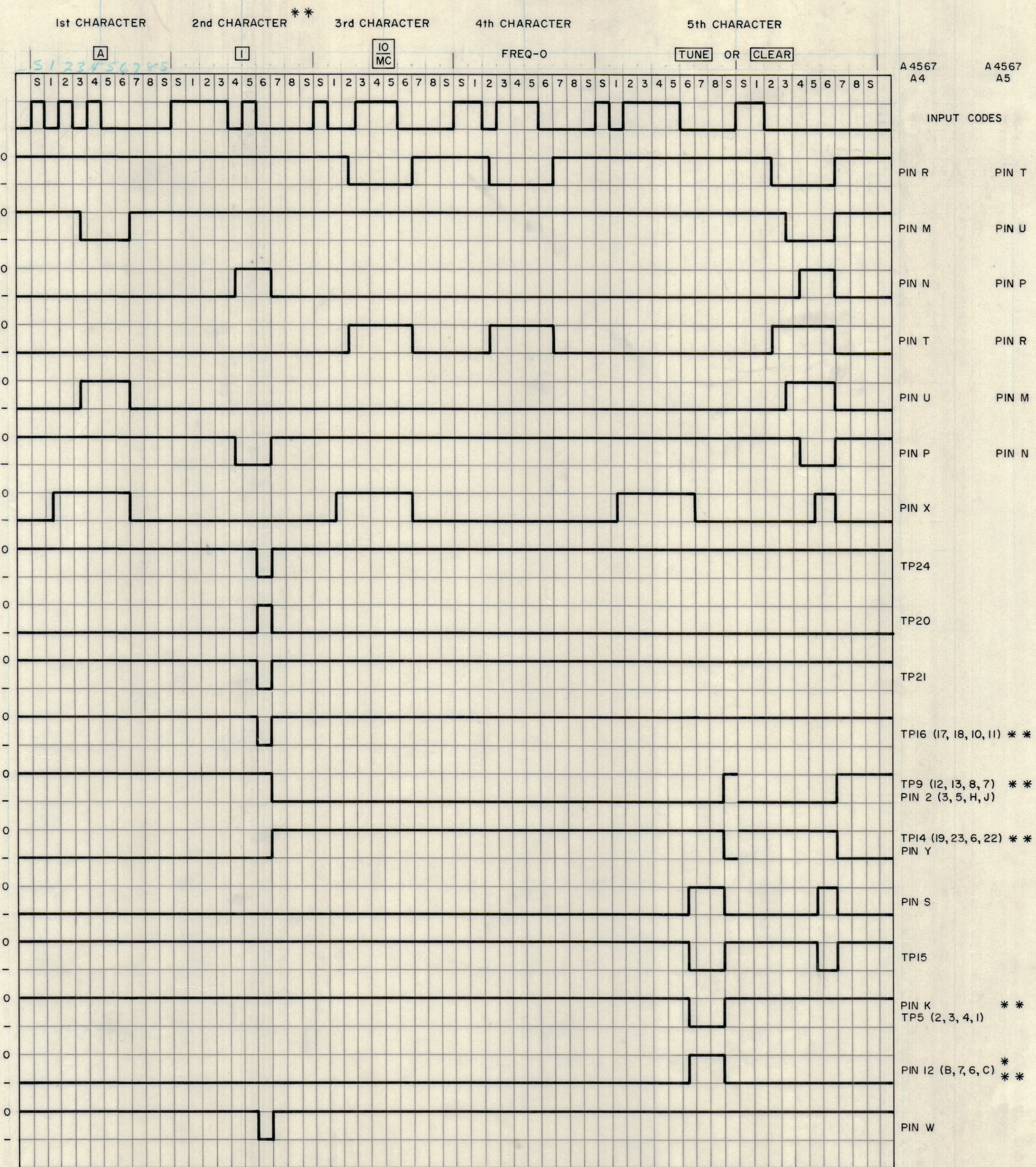
TOLERANCES ON  
 DECIMALS ± 1/64  
 FRACTIONS ± 1/64  
 ANGLES ± 0°-30'

MATERIAL  
 FINISH

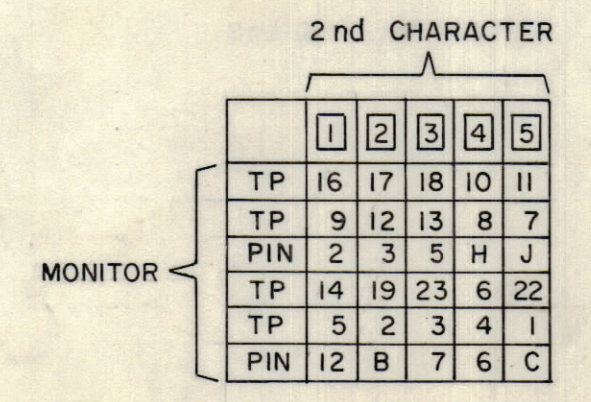
QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TIMING CHART A3 RTMU-41, 42				
SIZE	CODE	IDENT NO.	DWG NO.	ISSUE
D	82679		CH 802	Ø
SCALE				SHEET 2 OF 10



REVISIONS							
E.M.N.NO	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
				X	EXP. RELEASE	5/25/70	
				X	CLARIFIED	5/25/70	
				Ø	ORIGINAL RELEASE FOR PRODUCTION	4/24/70	



PINS A, Z, I, 22 (GND)  
 PIN 4 (-12V SUPPLY)  
 PIN 20 (+12V SUPPLY)  
 PINS V, 21 (NOT USED)  
 PIN 11 (REFER TO INITIAL RESET PULSE SHEET 1)



\* PULSE IS SEEN WHEN TERMINATED WITH A 1.2 KΩ RESISTOR TO -12V

\*\* THE SECOND (2nd) CHARACTER SHOULD BE SELECTED TO CORRESPOND TO THE PROPER NUMBER DECODER BEING PROGRAMMED

FIG-4-13 SHS

RTMU		A4567	
QTY / UNIT	MODEL USED ON	ASS'Y NO.	
APPLICATION			
CODE			
MATERIAL			
FINISH			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

TOLERANCES ON

DECIMALS	FRACTIONS
.X ± .05	± 1/64
.XX ± .01	ANGLES ± 0° -30'
.XXX ± .005	

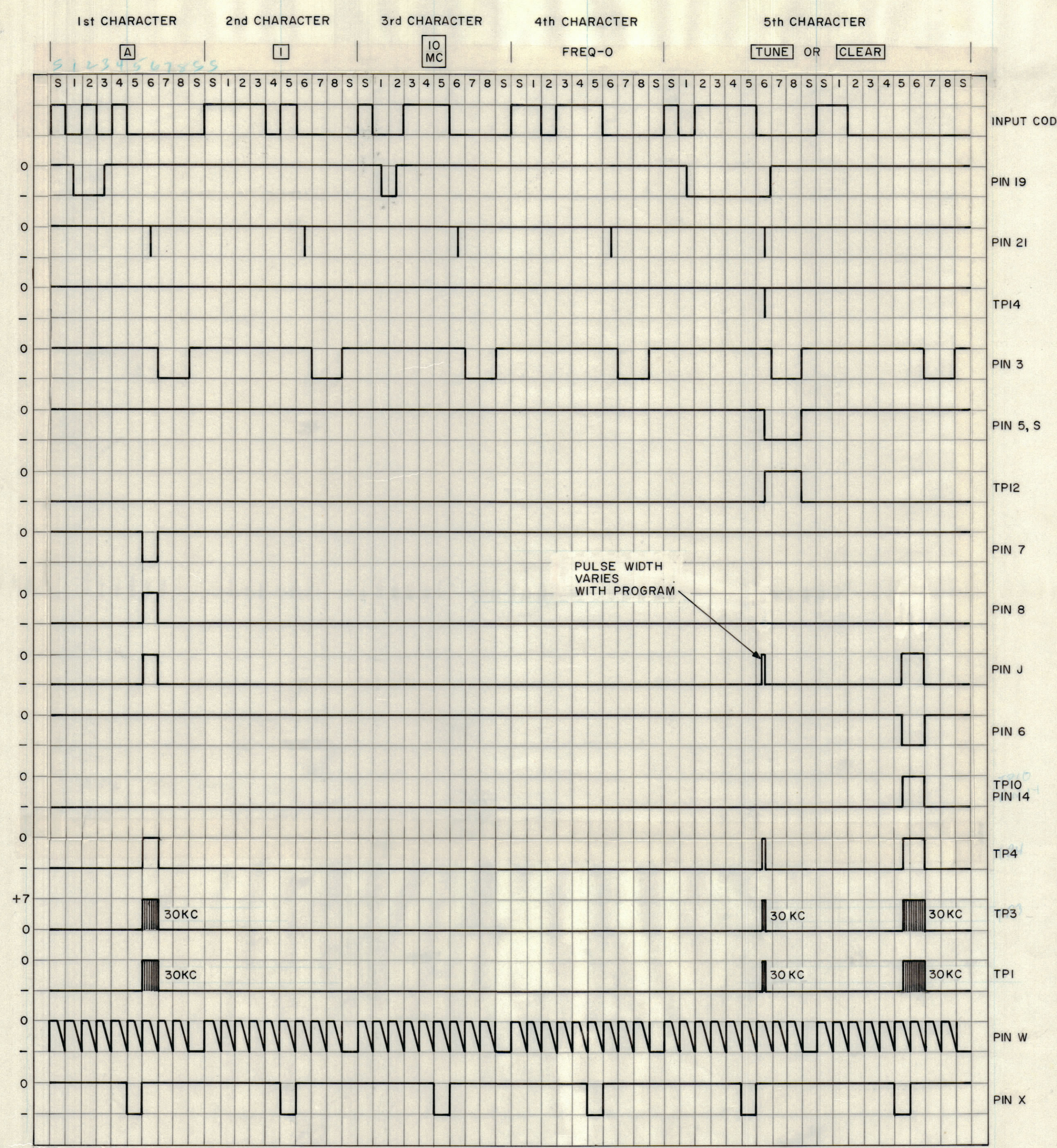
QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
FINAL APPROVAL		DATE	THE TECHNICAL MATERIEL CORP.	
MECH. DES.		DATE	MAMARONECK, NEW YORK	
ELECT. DES.		DATE	TIMING CHART A4, A5	
CHECKED		DATE	RTMU - 41, 42	
DRAWN		DATE	SIZE CODE IDENT NO. DWG NO.	
MATERIAL			D 82679	CH 802
FINISH			SCALE	SHEET 3 OF 10

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REVISIONS							
E.M.N.NO	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	1			XI	CLASSIFIED	3/23/70	
	2			II	ORIGINAL RELEASE FOR PRODUCTION	4/26/70	



60%

FIG-4-13 SH4

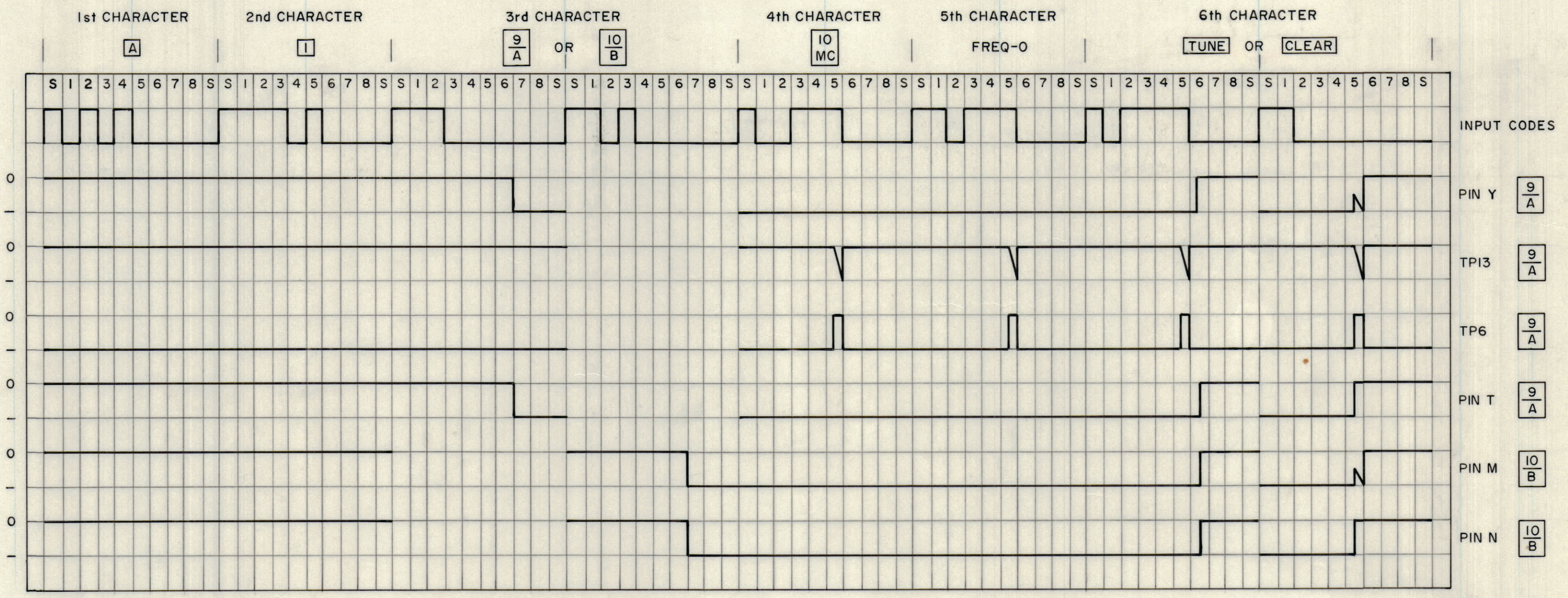
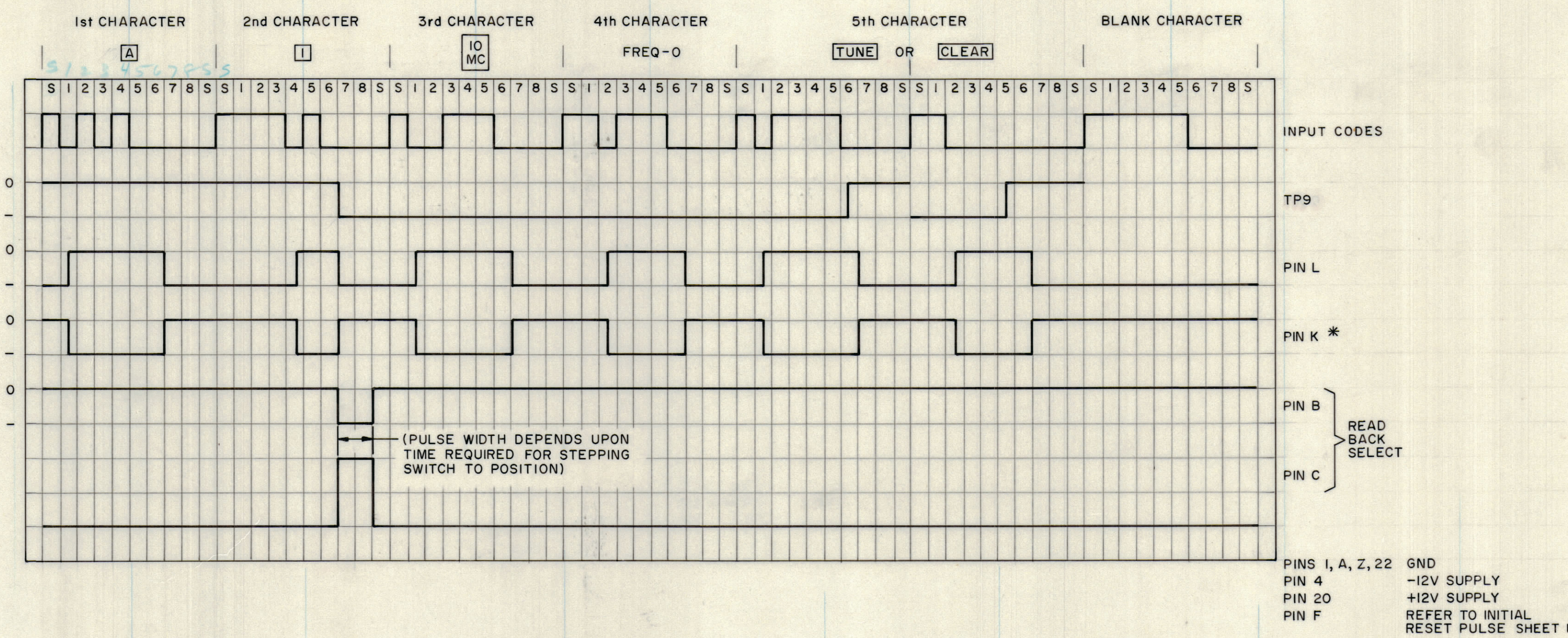
QTY / UNIT	RTMU	A4569
APPLICATION		
CODE		
<small>NOTICE TO PERSONS RECEIVING THIS DRAWING</small> <small>THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.</small>		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	
TOLERANCES ON	
DECIMALS	FRACTIONS
X ± .05	± 1/64
XX ± .01	ANGLES
.XXX ± .005	± 0° - 30'
MATERIAL	
FINISH	

QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
FINAL APPROVAL		DATE	THE TECHNICAL MATERIEL CORP.	
MECH. DES.		DATE	MAMARONECK, NEW YORK	
ELECT. DES.		DATE	TIMING CHART A6 RTMU-41, 42	
CHECKED		DATE		
DRAWN		DATE		
SIZE			CODE IDENT NO.	ISSUE
D			82679	CH 802
SCALE			SHEET 7 OF 10	



REVISIONS				
E.M.N.O	DRAFT	CHKD	ZONE	LTR
	1			
DESCRIPTION			DATE	APPROVED
CLARIFIED			8/23/70	
ORIGINAL RELEASE FOR PRODUCTION			10/26/70	



60%

FIG-4-13

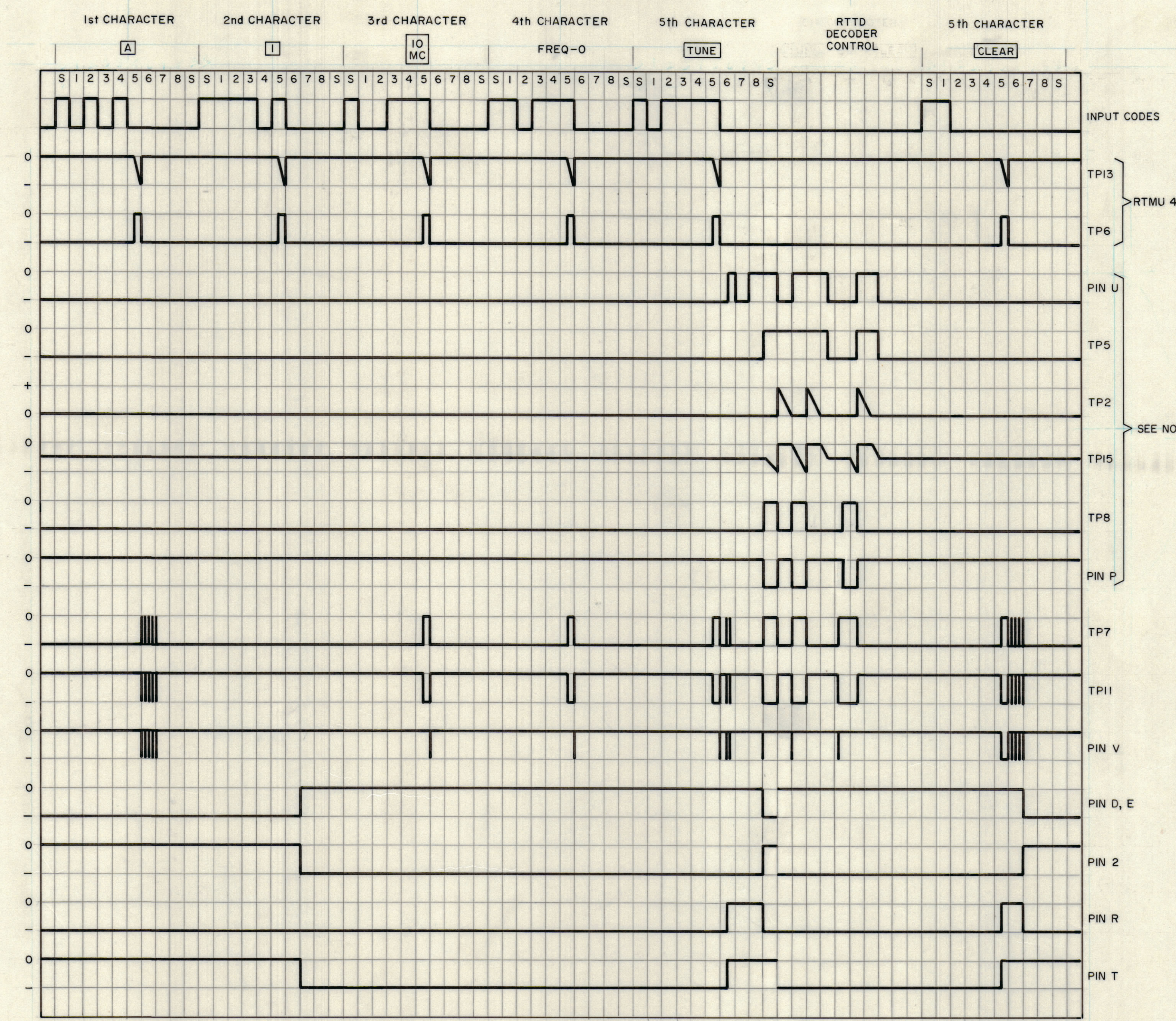
QTY / UNIT	RTMU	A4569
APPLICATION		
CODE		
NOTICE TO PERSONS RECEIVING THIS DRAWING		
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	
DECIMALS	FRACTIONS
.X ± .05	± 1/64
.XX ± .01	ANGLES
.XXX ± .005	± 0° -30'

QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TIMING CHART A6 RTMU-41, 42				
SIZE	CODE	IDENT NO.	DWG NO.	ISSUE
D	82679	CH 802		1
SCALE				SHEET 5 OF 10



REVISIONS							
E.M.N.NO	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	KL			X	EXP. RELEASE	6/12/70	
	KL			X	CLARIFIED	8/23/70	
	CU			Ø	ORIGINAL RELEASE FOR PRODUCTION	10/26/70	



NOTE  
WAVEFORMS ON PIN U, TP-5, TP-2, TP-15, TP-8, AND PIN P OCCUR DURING RTTD TUNING CYCLE ONLY

60%

FIG-4-13

QTY / UNIT	MODEL USED ON	ASSY NO.
	RTMU	A4569
APPLICATION		
CODE		
<small>NOTICE TO PERSONS RECEIVING THIS DRAWING</small> <small>THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown herein without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.</small>		

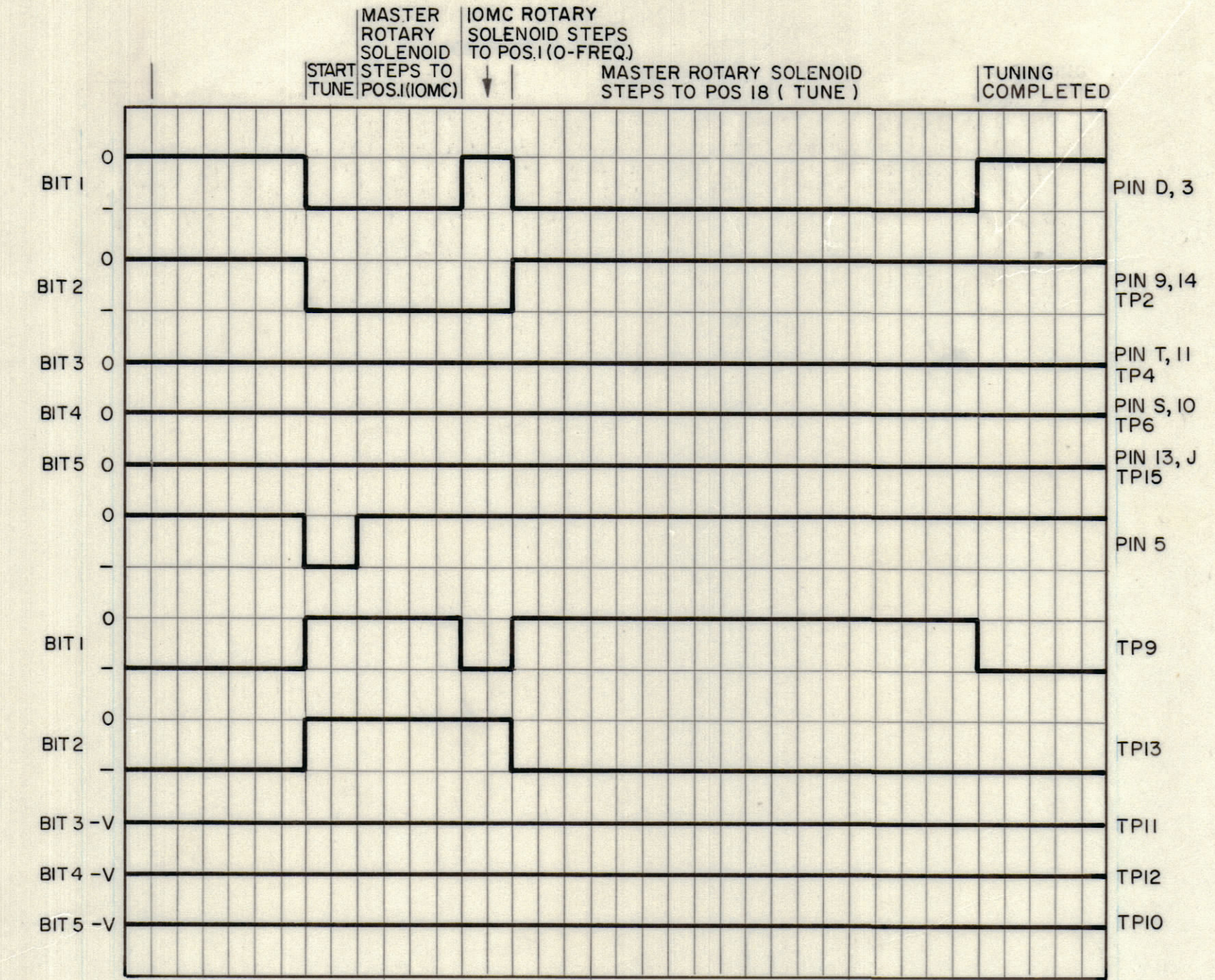
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	
DECIMALS	FRACTIONS
X ± .05	± 1/64
.XX ± .01	ANGLES
.XXX ± .005	± 0° - 30°
MATERIAL	
FINISH	

QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
FINAL APPROVAL		DATE	THE TECHNICAL MATERIEL CORP.	
MECH. DES.		DATE	MAMARONECK, NEW YORK	
ELECT. DES.		DATE	TIMING CHART A6	
CHECKED		DATE	RTMU-41, 42	
DRAWN		DATE	SIZE CODE IDENT NO. DWG NO.	
		DATE	D 82679 CH 802	
MATERIAL			ISSUE	
FINISH			SCALE	
			SHEET 6 OF 10	

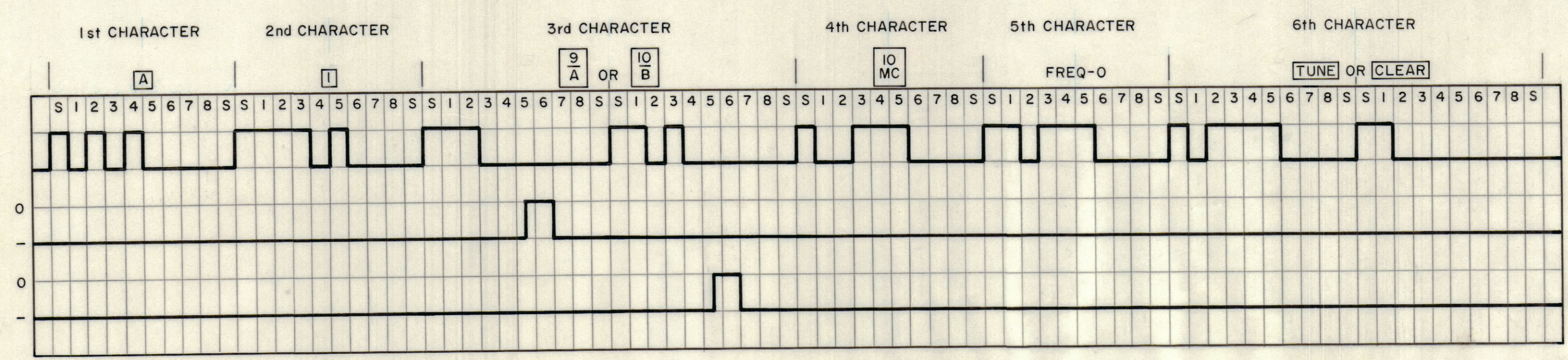
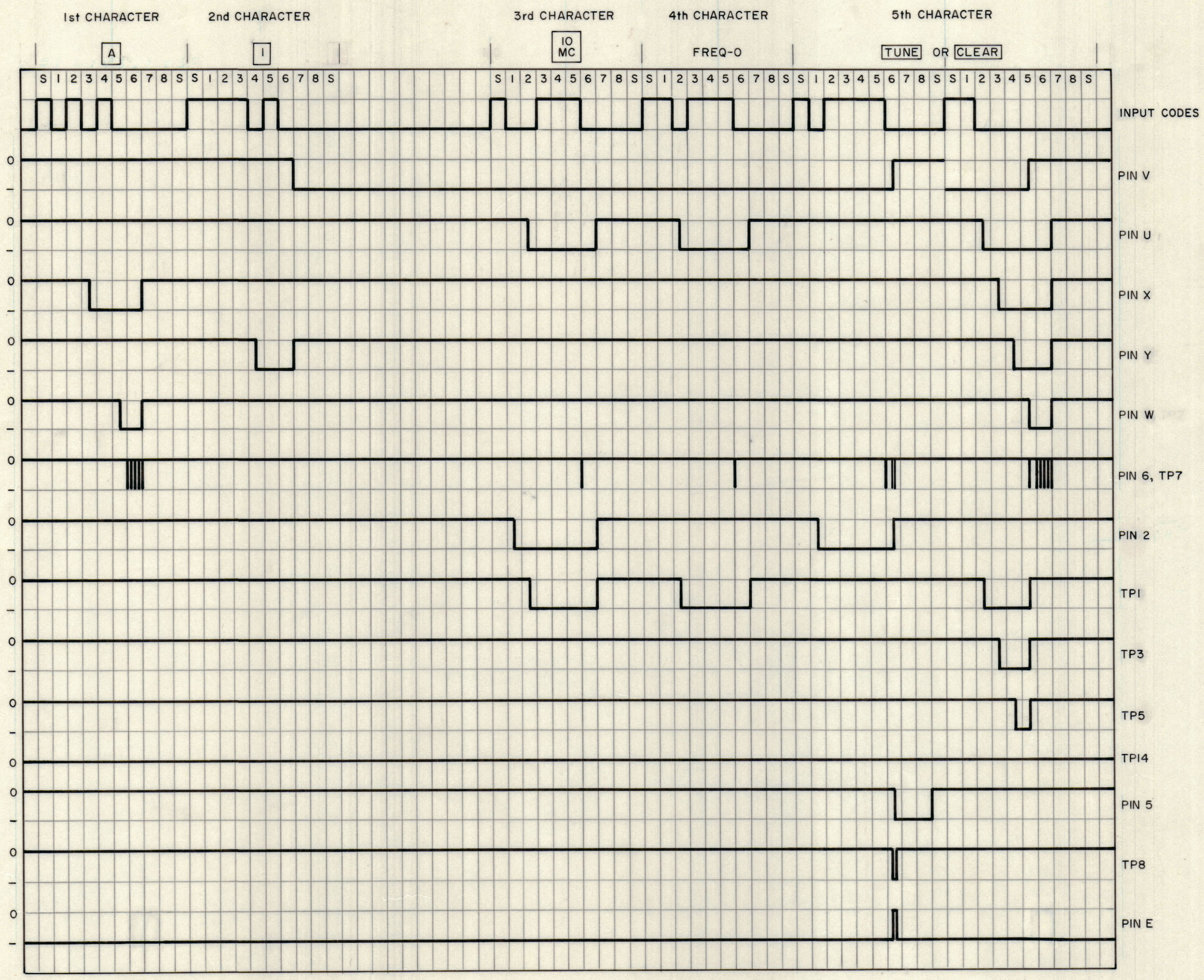


REVISIONS							
E.M.N.O.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	2/1			X	EXP. RELEASE	6/15/70	
	2/1			X	REV. & CLARIFIED	8/23/70	
	0			X	ORIGINAL RELEASE FOR PRODUCTION	10/27/70	

TYPICAL DECODER OPERATION FOR PROGRAM AI IOMC O-FREQ. TUNE



PINS 1, A, Z, 22, C -GND  
 PIN 4 -12V SUPPLY  
 PIN 20 +12V SUPPLY  
 PIN 21 -27V SUPPLY



PULSE IS SEEN WHEN TERMINATED WITH 1.2K OHM RESISTOR TO -12V

FIG-4-13

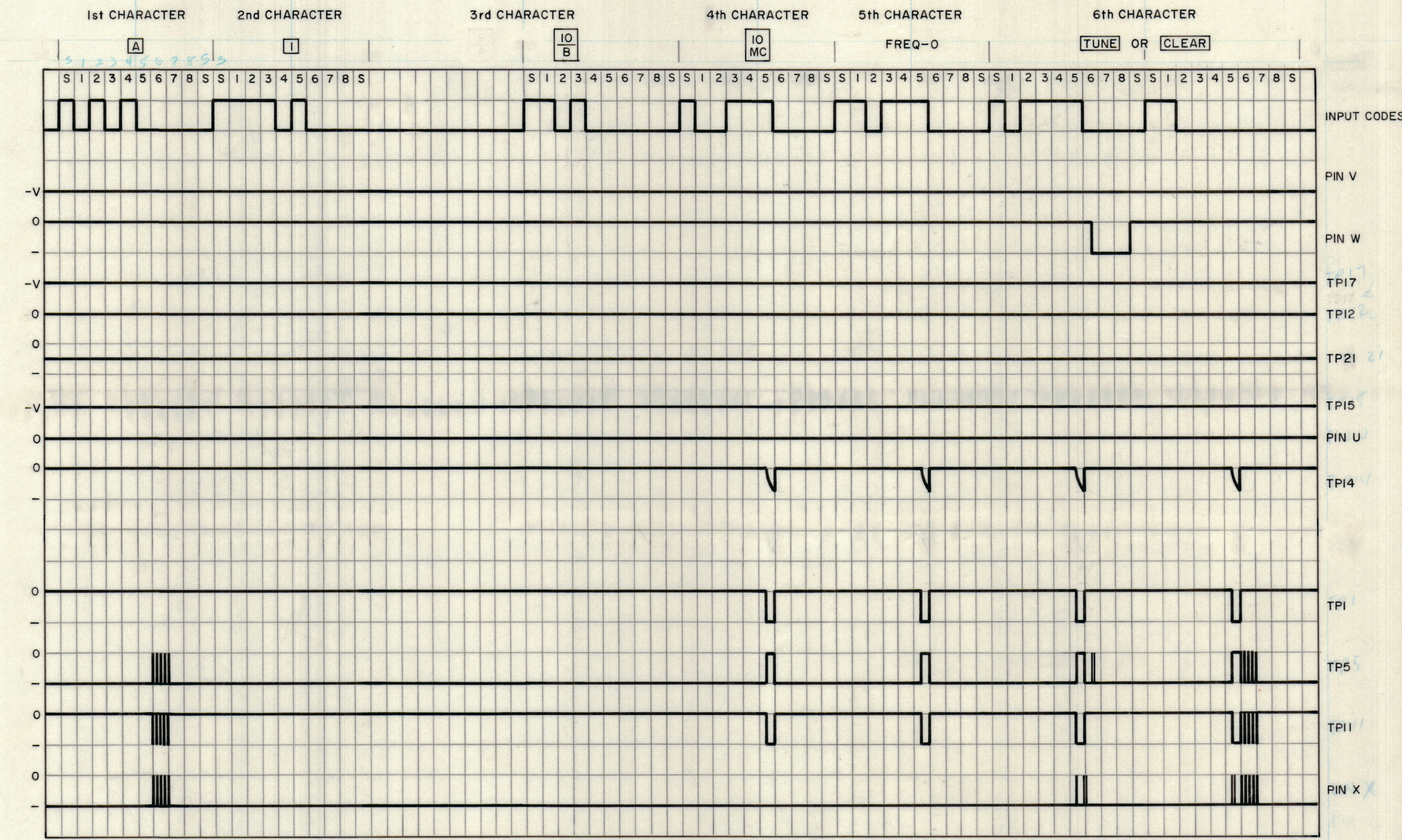
5670

QTY / UNIT	RTMU	A 4710
APPLICATION		
CODE		
NOTICE TO PERSONS RECEIVING THIS DRAWING		
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QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TIMING CHART A7, A8 RTMU-41, 42				
SIZE CODE IDENT NO DWG NO. ISSUE				
D		82679	CH 802	8
SCALE SHEET 7 OF 10				



REVISIONS							
E.M.N.NO	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
44				X	EXP. RELEASE	6/12/70	
44				X	CLARIFIED	9/13/70	
00				Ø	ORIGINAL RELEASE FOR PRODUCTION	10/24/70	



60%

FIG. 4-13

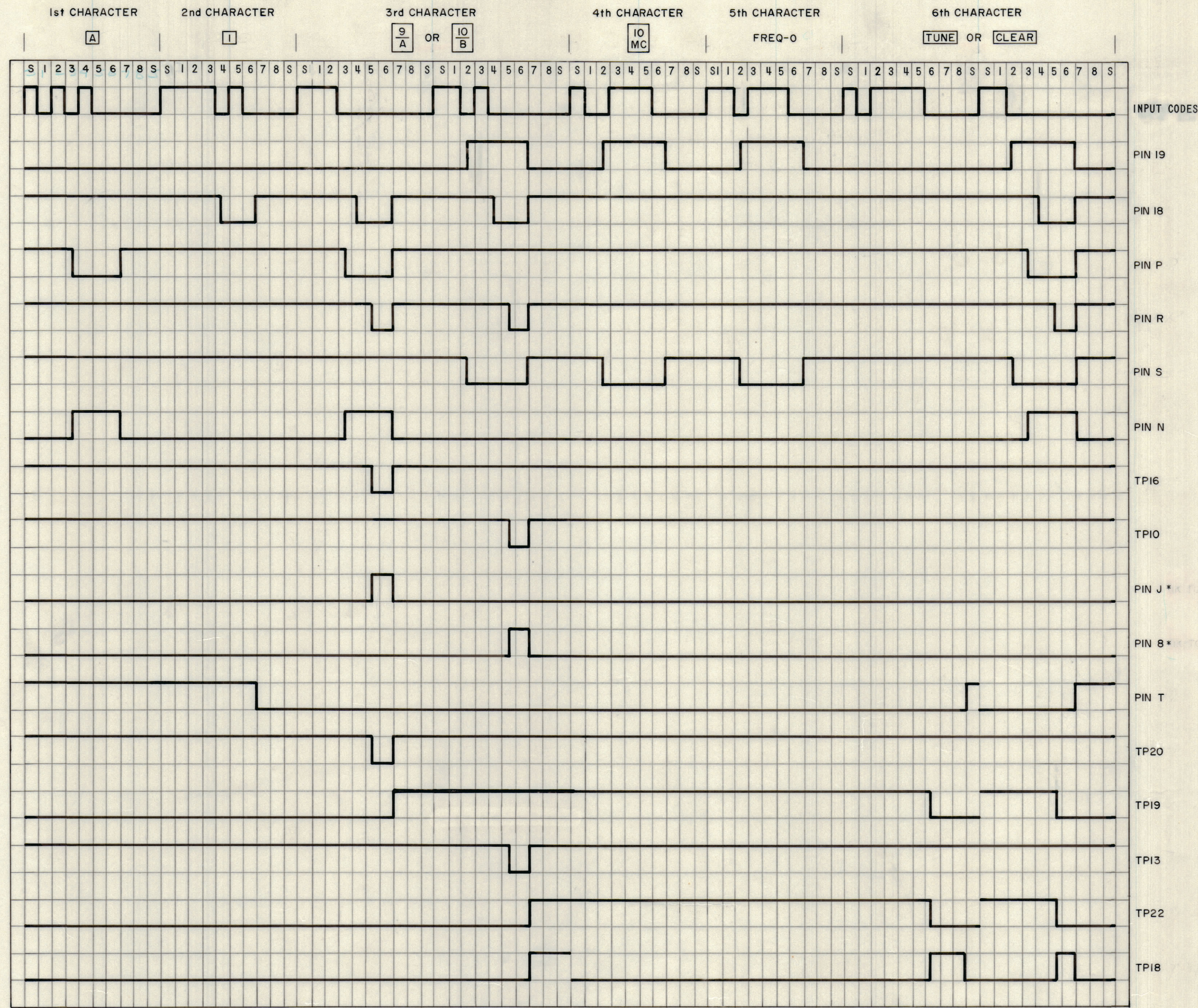
QTY / UNIT	RTMU	A4570
MODEL USED ON		ASS'Y NO.
APPLICATION		
CODE		
<small>NOTICE TO PERSONS RECEIVING THIS DRAWING</small> <small>THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.</small>		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		FINAL APPROVAL <i>J. J. Marano</i>	DATE 10/26/70
TOLERANCES ON		ELECT. DES.	DATE
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	FRACTIONS ± 1/64 ANGLES ± 0° - 30'	CHECKED <i>CV</i>	DATE 10/26/70
MATERIAL		DRAWN <i>L. J. ...</i>	DATE 6/12/70
FINISH			

QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TIMING CHART A9 RTMU 41, 42				
SIZE	CODE IDENT NO	DWG NO.	ISSUE	
D	82679	CH 802	Ø	
SCALE				SHEET 8 OF 10



REVISIONS					
E.M.N.NO	DRAFT	CHKD	ZONE	LTR	APPROVED
	0			0	10/26/70
DESCRIPTION					DATE
ORIGINAL RELEASE FOR PRODUCTION					10/26/70



\* PULSE IS SEEN WHEN TERMINATED WITH A 1.2KΩ RESISTOR TO -12V

60%

FIG-4-13 SH

QTY / UNIT	RTMU	A4570
MODEL USED ON		
ASS'Y NO.		
APPLICATION		
CODE		
<small>NOTICE TO PERSONS RECEIVING THIS DRAWING</small> <small>THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed herein. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown herein without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.</small>		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	
TOLERANCES ON	
DECIMALS	FRACTIONS
.X ± .05	± 1/64
.XX ± .01	ANGLES
.XXX ± .005	± 0° -30'
MATERIAL	
FINISH	

QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
FINAL APPROVAL		DATE		<b>THE TECHNICAL MATERIEL CORP.</b> MAMARONECK, NEW YORK  TIMING CHART A9 RTMU - 41, 42
MECH. DES.		DATE		
ELECT. DES.		DATE		
CHECKED		DATE		
DRAWN		DATE		
SIZE CODE IDENT NO. DWG NO.				ISSUE
D 82679 CH 802				0
SCALE				SHEET 9 OF 10