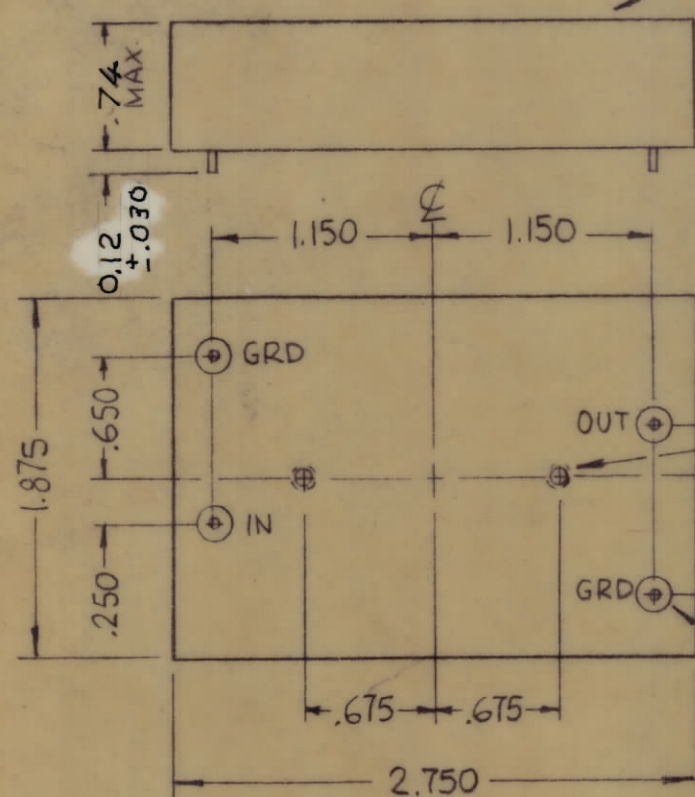


\*THIS UNIT MUST BE MATCHED BY MFR SERIES NO. WITH FX263 & BOTH TESTED AS A PAIR

LETTERING & TMC P/N W/LATEST REV LETTER

THE TECHNICAL MATERIEL CORP  
MAMARONECK NEW YORK  
EQ 263



4-40 UNC-2B  
4 FULL THREADS DEEP  
(2 PLACES)

MECHANICAL SPEC

CASE:  
MATERIAL: 24 GA CR STEEL  
DIMENSIONS: AS SHOWN  
FINISH: POWDER BLASTED NICKEL  
UNIT TO BE HERMETICALLY SEALED

TERMINALS 4 PL  
STEEL WIRE .040 DIA OR EQUIVALENT  
GLASS OR TEFLON INSULATION

1	MSAR-4	
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
	CODE	S401-451
	A	

NOTICE TO PERSONS RECEIVING THIS DRAWING  
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REVISIONS						
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD APPD
	X	EXP. RELEASE	3-3-67			
	X1	SPECS. CLARIFIED	4-5-67		G.D.L.	
	<del>B</del>	<del>ORIG. RELEASE FOR PRODUCTION</del>	<del>6-15-67</del>	<del>8</del>	<del>RG</del>	<del></del>
	A	.74 HEIGHT DIM WAS .670, .22" .030 STEEL DIM WAS .22" .040 GAUGE DIM WAS .030	1-28-69	19219	JL	JL OP
	B	SPECS COMPLETELY REVISED	3-19-69	19595	K4	JL MIB
	C	REVISED SCHEMATIC	6-2-70	19748	KD	
	D	CHG. TERM. LENGTH	7-6-71	20420	R7	(O) P.E.A.

\*OVERALL SPECIFICATIONS OF EQ263 EQUALIZER AND FX263 FILTER

1. dB MEASUREMENTS: ALL dB MEASUREMENTS ARE RELATIVE TO MAXIMUM SIGNAL RESPONSE IN THE PASSBAND
2. -1 dB POINTS: EQUAL OR LESS THAN 250.260 KC AND EQUAL OR GREATER THAN 253.030 KC
3. -60 dB POINTS: NOT HIGHER THAN 253.260 KC AND -55 dB AT 250.000 KC
4. RIPPLE: 0.4 dB MAX BETWEEN 250.300 KC AND 252.975 KC
5. ALL SPURIOUS RESPONSES AND RETURN LOBES AT LEAST 60dB DOWN BETWEEN 200KCS & 5000KCS
6. OVERALL MAXIMUM ENVELOPE DELAY DISTORTION TO BE LESS THAN 500  $\mu$ S BETWEEN 250.360 & 252.920 KC. AND NOT GREATER THAN 1000 $\mu$ S BETWEEN 252.930 AND 253.020 KC

PARTICULAR SPECIFICATIONS

1. TYPE: INNER, UPPER SIDEBAND EQUALIZER
2. INSERTION LOSS 4 dB MAX
3. SOURCE AND LOAD IMPEDANCE: 500  $\pm$  5% OHMS
4. OPERATING TEMPERATURE: 0 DEGREES TO 65 DEGREES C
5. THIRD ORDER, IN-BAND INTERMODULATION DISTORTION WILL BE AT LEAST 65 dB DOWN FROM THE REFERENCE LEVEL OF EITHER OF TWO EQUAL 100 mv TONES IN THE FILTER PASSBAND, SELECTED IN A MANNER SUCH THAT THE THIRD ORDER-PRODUCT FALLS IN THE FILTER PASSBAND
6. MAXIMUM SIGNAL INPUT: 3 VOLTS rms
7. NON OPERATING TEMP RANGE: -62 DEGREES C TO +75 DEGREES C
8. PEAK SHOCK CAPABILITY: 20 G WITHIN A PERIOD OF 10 MILLISECONDS APPLIED ALONG THREE MUTUALLY PERPENDICULAR AXES
9. VIBRATION CAPABILITY: 5 CPS TO 50 CPS AT AN AMPLITUDE OF 1.3 G

INSERTION LOSS IS DEFINED AS 20 LOG A, WHERE  $A = |E_1| / |E_2|$ ,  $R_s$  = SOURCE IMPEDANCE,  $R_L$  = LOAD IMPEDANCE, SEE SKETCH.  $E_0$  IS FIXED AT ANY FREQUENCY IN THE PASSBAND OF THE FILTER.

MARKING PROCESS: AS PER TMC SPECIFICATION S727  
LETTERING: 1/8 HIGH BLACK GOTHIC, LOCATED AS SHOWN

QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL	
R. HOGAN LIST OF MATERIAL					
FINAL APPROVAL		DATE	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		
MECH. DES.		DATE	BANDPASS EQUALIZER CHANNEL A1		
ELECT. DES.		DATE			
CHECKED		DATE			
DRAWN		DATE	SIZE CODE IDENT.NO. DWG NO. ISSUE		
MATERIAL		M/L akaw 6/16/67	C 82679	EQ263	D
FINISH			SCALE 1:1	SHEET	OF