

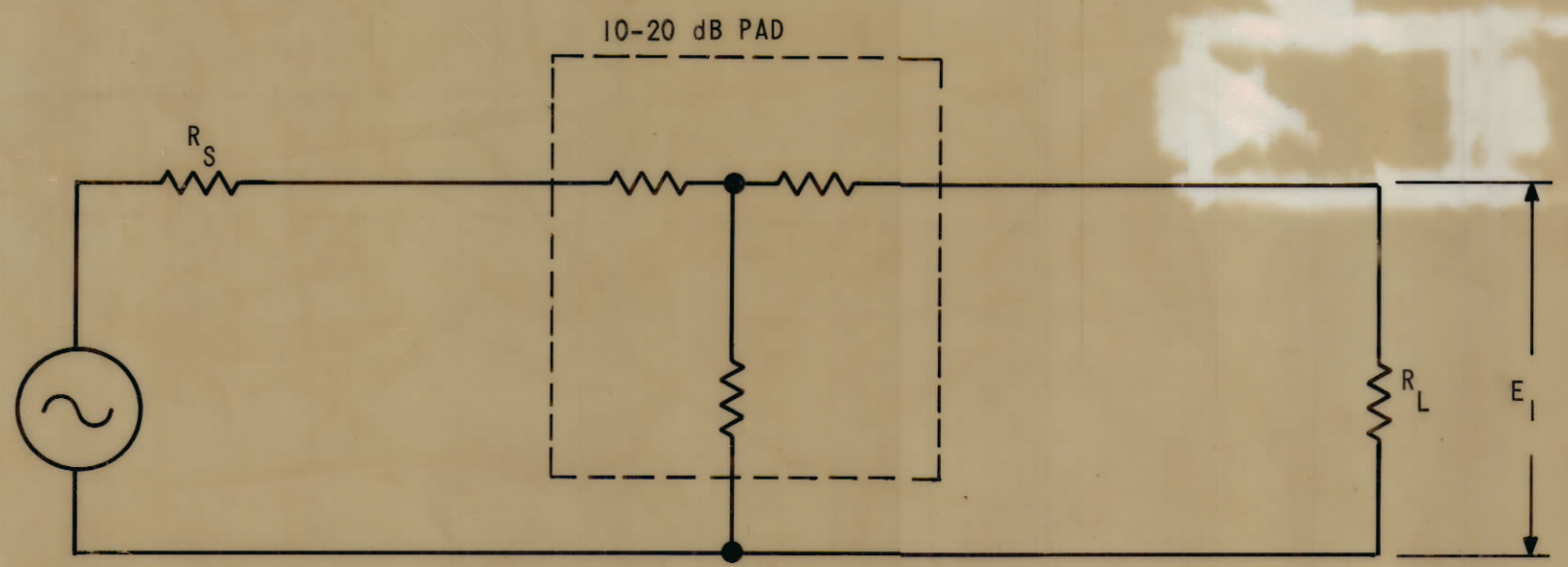
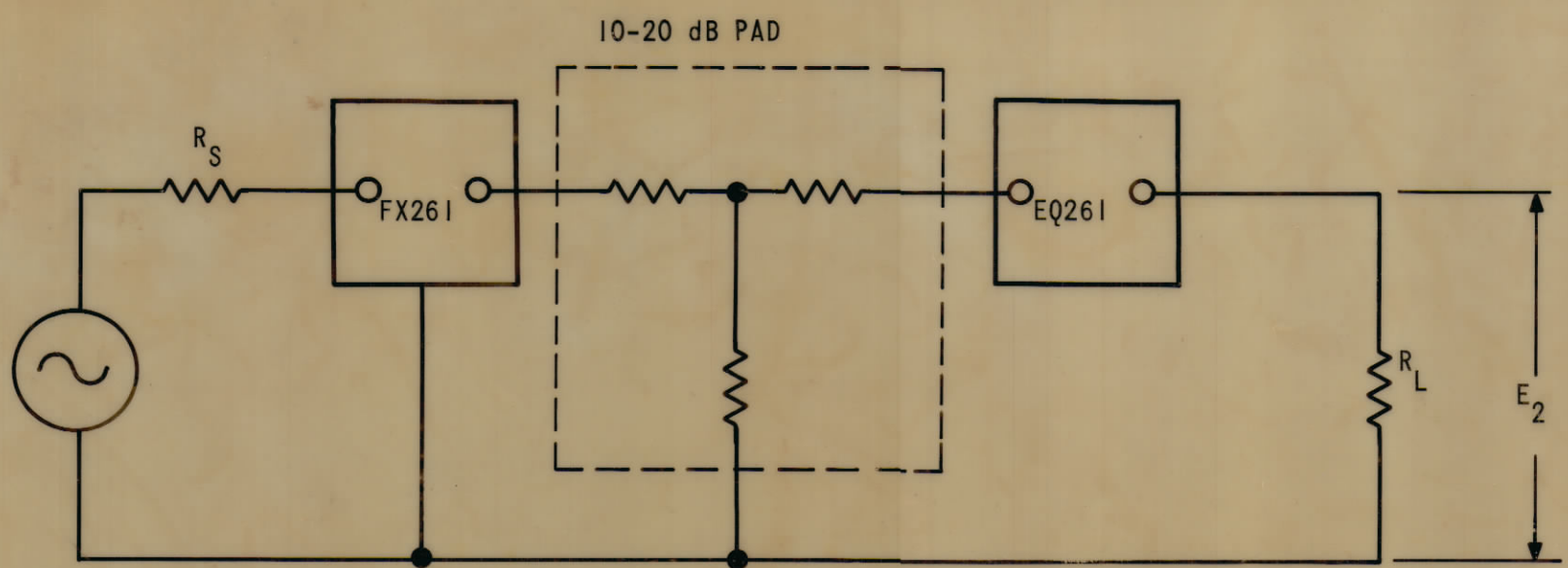
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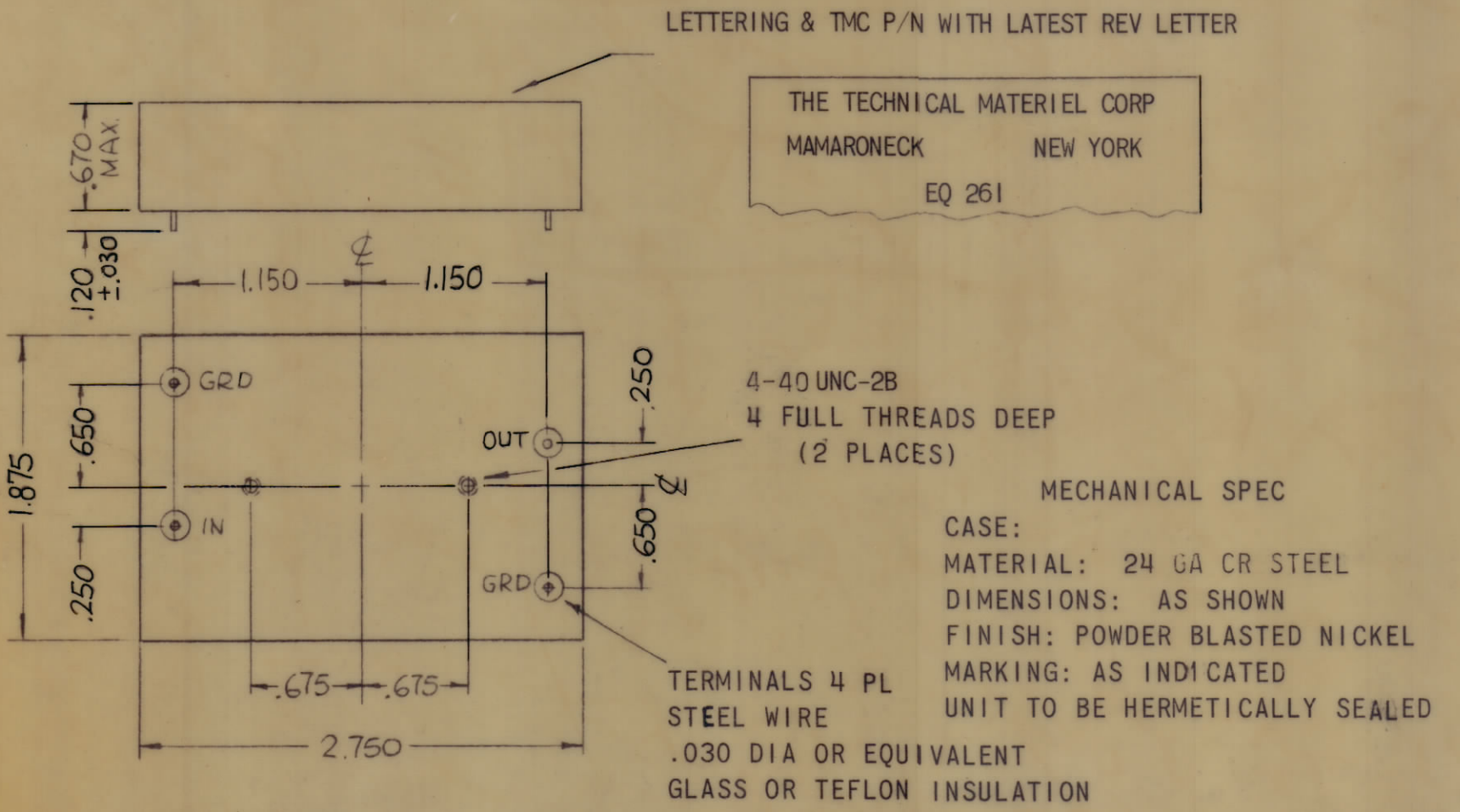
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REVISIONS						
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD APPD
X		EXP. RELEASE	3-3-67			
XI		SPECS. CLARIFIED	4-5-67		G.D.L.	
Z		ORIG RELEASE FOR PRODUCTION	4-15-67		R.G.	
A		SPECS COMPLETELY REVISED	9/5/69	19595	K.H.	
B		REVISED SCHEMATIC	2-2-70	19748	K.D.	



*THIS UNIT MUST BE MATCHED BY MFR SERIES NO. WITH FX261 & BOTH TESTED AS A PAIR



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

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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*OVERALL SPECIFICATIONS OF EQ261 EQUALIZER AND FX261 FILTER

1. dB MEASUREMENTS: ALL dB MEASUREMENTS ARE RELATIVE TO MAXIMUM SIGNAL RESPONSE IN THE PASSBAND
2. -1 dB POINTS: ≤ 253.260 KC AND ≥ 255.930 KC
3. -60 dB POINTS: ≥ 253.030 KC AND ≤ 256.320 KC
4. RIPPLE: 0.4 dB MAX BETWEEN 253.300 KC AND 255.870 KC
5. ALL SPURIOUS RESPONSES AND RETURN LOBES AT LEAST 60dB DOWN BETWEEN 200KCS AND 500KCS
6. OVERALL MAXIMUM ENVELOPE DELAY DISTORTION TO BE LESS THAN 500 μ S BETWEEN 253.370 & 255.910 KC AND NOT GREATER THAN 1000 μ S BETWEEN 253.360 KC AND 253.270 KC

PARTICULAR SPECIFICATIONS

1. TYPE: OUTER, 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 $A = |E_1| / |E_2| \sqrt{R_S}$ = 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				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
BANDPASS EQUALIZER CHANNEL A2				
FINAL APPROVAL	DATE			
MECH. DES.	DATE			
ELECT. DES.	DATE			
CHECKED	DATE			
DRAWN	DATE			
MATERIAL	M/L Allen 6/16/67	SIZE	CODE IDENT. NO.	DWG NO.
FINISH		C	82679	EQ 261
		SCALE	1:1	SHEET OF

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