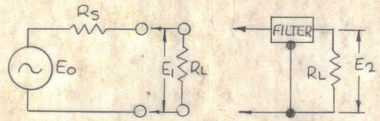
REVISIONS							
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
	X	EXP. RELEASE	4/2/69	X	KH		
	X1	NOTE 5 ON OVERALL SPEC REVISED	5/6/69	X1	CV		
	Ø	ORIGINAL RELEASE FOR PRODUCTION	5/8/69	Ø	CV		



OVERALL SPECIFICATIONS OF EQ291 EQUILIZER AND FX291 FILTER

1. dB MEASUREMENTS: ALL dB MEASUREMENTS ARE RELATIVE TO MAXIMUM SIGNAL RESPONSE IN THE PASSBAND
2. -1 dB POINTS: 246.970kHz MAX, 249.740kHz MIN
3. -75 dB POINTS: NOT LOWER THAN 246.500 kHz AND NOT HIGHER THAN 250.240 kHz
4. RIPPLE: 0.5 dB MAX BETWEEN 247.025 kHz AND 249.700kHz
5. ALL SPURIOUS RESPONSES AT LEAST 65 dB DOWN BETWEEN 200kHz AND 300kHz
6. OVERALL MAXIMUM ENVELOPE DELAY DISTORTION TO BE LESS THAN 500 uS BETWEEN 247.080 AND 249.630 kHz

PARTICULAR SPECIFICATIONS

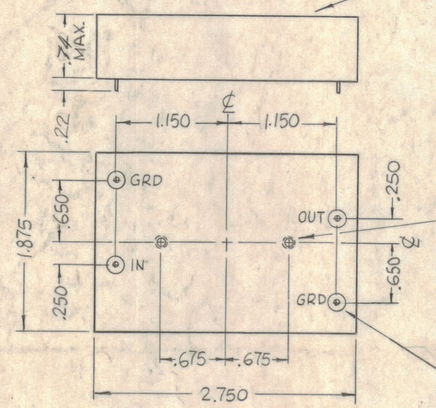
1. TYPE: INNER, LOWER SIDEBAND EQUALIZER
2. INSERTION LOSS 4 dB MAX
3. SOURCE AND LOAD IMPEDANCE: 500 ±5% OHMS
4. OPERATING TEMPERATURE: 0 DEGREES TO 65 DEGREES C
5. THIRD ORDER, IN-BAND INTERMODULATION DISTORTION WILL BE AT LEAST 65 dB DOWN FROM THE REFERENCE LEVEL OF EITHER OF TWO EQUAL 30 mv TONES 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 Hz TO 50 Hz AT AN AMPLITUDE OF 1.3 G

INSERTION LOSS IS DEFINED AS 20 LOG A. WHERE $A = |E_1| / |E_2|$, Rs = SOURCE IMPEDANCE, R_L = LOAD IMPEDANCE SEE SKETCH. Eo 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

LETTERING AND TMC P/N W/LATEST REV. LETTER

THE TECHNICAL MATERIEL CORP
MAMARONECK NEW YORK
EQ 291



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
MARKING: AS INDICATED
UNIT TO BE HERMETICALLY SEALED

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

QTY. REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		PROPOSE		

LIST OF MATERIAL

1	MSAR-5	
QTY / UNIT	MODEL USED ON	ASS'Y NO.

APPLICATION

CODE	
A	5401-451

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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

FINAL APPROVAL	SAM	DATE 5/8/69
MECH. DES.		DATE
ELECT. DES.		DATE
CHECKED		DATE 4-16-69
DRAWN	K.H.	DATE 4/2/69

THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

BANDPASS EQUALIZER
CHANNEL B1

SIZE	CODE IDENT.NO.	DWG NO.	ISSUE
C	82679	EQ291	Ø
SCALE 1:1		SHEET	OF

EQ 291 Ø

FCI-10-170 (10-66)