

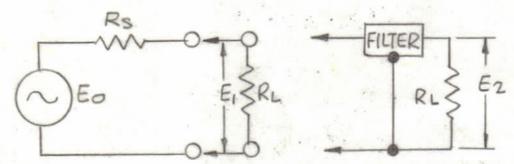
REVISIONS						
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD APPD
	X	EXP. RELEASE	4/2/69	X	KH	file
	XI	NOTE 5 ON OVERALL SPEC REVISED	5/6/69	XI	CV	file
	Ø	ORIGINAL RELEASE FOR PRODUCTION	5/8/69	Ø	Ø	Ø

OVERALL SPECIFICATIONS OF EQ296 EQUALIZER AND FX296 FILTER

1. dB MEASUREMENTS: ALL dB MEASUREMENTS ARE RELATIVE TO MAXIMUM SIGNAL RESPONSE IN THE PASSBAND
2. -1 dB POINTS: 250.260kHz MAX AND 253.030kHz MIN
3. -75 dB POINTS: NOT LOWER THAN 249.760 kHz AND NOT HIGHER THAN 253.500 kHz
4. RIPPLE: 0.5 dB MAX BETWEEN 250.300kHz AND 252.975 kHz
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 250.370 & 252.920kHz

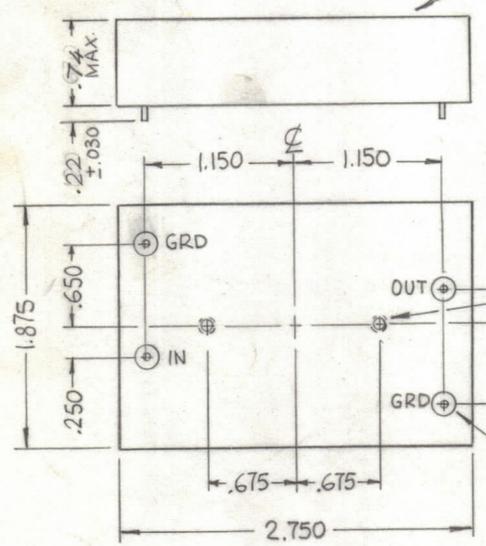
PARTICULAR SPECIFICATIONS

1. TYPE: INNER, UPPER 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: 5Hz TO 50Hz AT AN AMPLITUDE OF 1.3 G



LETTERING & TMC P/N W/LATEST REV LETTER

THE TECHNICAL MATERIEL CORP
MAMARONECK NEW YORK
EQ 296



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

INSERTION LOSS IS DEFINED AS 20 LOG A, WHERE A = |E1| / |E2|, RS = SOURCE IMPEDANCE RL = LOAD IMPEDANCE. SEE SKETCH. E0 = 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
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
BANDPASS EQUALIZER CHANNEL A1				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
C	82679	EQ 296	Ø	
SCALE 1:1			SHEET	OF

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	

1	MSAR-5	
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
	CODE	S401-451
	A	
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