

DATE <u>8/21/61</u>		TMC SPECIFICATION NO. S -583	A
SHEET <u>1</u> OF <u>2</u>			
M. Gellman COMPILED	<i>MG</i> CHECKED	TITLE: CRYSTAL FILTERS	
<i>MG</i> APPROVED			

OBSOLETE

Temperature Range - 0-70° C
 All db, measurements are relative to the passband.
 Input impedance on all crystal filters - 300 ohms.

Output impedance: to grid

Return lobes or spurious: 60 db or greater

Container size - 1 11/32 x 1 5/16 x 4" max.

7½ Kc upper and lower sidebands asymmetrical

Bandwidth at 3 db from 250 Kc carrier 7½ Kc.

250 Kc carrier at 30 db.

Sharp slope at + 30 db should be less than + 225 cycles
 either side of 250 Kc.

Trailing slope shall be less than 13 Kc at 60 db down or greater

Ripple through passband shall be less than + 1½ db.

Output voltage gain from filter 14 db. + 1 db.

3.5 Kc upper and lower sideband asymmetrical filter;

Bandwidth at 3 db from 250 Kc - 3.5 Kc.

250 Kc at 30 db sharp slope at + 30 db shall be less than + 140
 cycle. Trailing slope shall be less than 5.5 Kc at 60 db or greater

250 Kc - ripple + 3/4 db.

Output voltage gain from filter 3 db + 1 db.

6 Kc asymmetrical upper and lower sideband;



Bandwidth at 3 db from 250 Kc = 6 Kc

250 Kc at 30 db sharp slope + 30 from carrier shall be less
 than ±175 cycl s.

Trailing slope shall be 11 Kc or 1 ss fr = 250 Kc at 60 db. or greater

Ripple shall be less than + 1 db.

Output voltage gain from filter 14 db +1 db.

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6 Kc symmetrical:

Ripple through passband $\pm \frac{1}{2}$ db

250 Kc at center of passband.

Bandwidth at 3 db = 6 Kc

S/F 1.6:1 or less 6-60 db.

Output voltage gain from filter 14 db \pm 1 db.

1 Kc symmetrical:

250 Kc center of passband

Ripple \pm 1 db

Bandwidth at 3 db = 1 Kc \pm 5%

S/F 2-1 or less 6-60 db.

Output voltage gain from filter 14 db \pm 1 db.

