STALO)
$$\Delta(^{\circ}C) = ASAA$$

$$= -28_{1}84^{\circ}C - (22_{1}22)$$

$$= -8_{1}11^{\circ}C$$

$$= -8_{1}11^{\circ}C$$

STALO total drift = 12 x-SI, 110 = = 102,250 ppm $\Delta f = FD \times f_0 = 102.22 \times 9.2 \times 109$ = 940,424 Hz

COHORMS =
$$-81,1$$
 i(x 20 pm)
 $= 1022,2$ ppm
 $AP = \frac{FD \times 6}{1 \times 10^6} = \frac{1022,2 \times 300 \times 10}{1 \times 10^6}$
 $= 30.66600$ Hz

(1) (a) 1 = 7,8 GHz P. = 1.8 G/h

9,3

MIN = 9,3-7,8 = 1.8GHz

10.8 91/2

: aifferne = 15x103 M Flz = 15000 MHz

· No - only 10.16Hz which is at he edge of the filter.

2. Sections d)

- Total las = 0,7dB + 6dB +1,5dB =8,2dB output power = Input Power - Total loss = 7dBm - 8,2 dB -- - 1.2 dBm
- 6 Octput Power from Piller -- 12dB Desired Power = Hodbn 1 Power needle = lodBm - (-1,2dBm) = 11,2dB
- 138-Section 6 - Sections