Timing offict

Frequency distance = Ol Tsyn

Phase rotation between two pilots = 27 bl 70

- T C ZT OL T, CT

0123

- T < 6 70 < 1 Toyn
- 1 Toyn < 7, < 1 Toym

Frequency offict

DM: distance of the closest same supcarrie,

Time distance = Dm (Toyn + Top) = Dm Toverail

Phase rotation between 2 Pilots z 2.7 Dm Toverall FCFO

- T < 2T DM Toverall FCFO < TT

Dm24

-1 C FCro. C 1 8 Toveran

a) For each subcarrier =
$$14+2$$
total bits in lms for 1 subcorrier = $14+2$
 2286455

Over head = $\frac{2}{27} = \frac{1}{14}$

Noct = 9
$$M = \frac{1}{4} \left[50 + \frac{1}{(0.25)^2} + \frac{1}{(0.5)^2} + \frac{1}{12} + \frac{1}{12} \right]$$

Yemove 0.29 Subcarrier

Now = 3.4

Prot = 10 mW

M2
$$\frac{1}{3}$$
 [10 + (0.5) $\frac{1}{12}$ + $\frac{1}{12}$]

= 5.33

Post = wan (M - $\frac{1}{0}$) man (4.27, 1), man (4.23, 1)]

= [mox ($\frac{1}{3}$.3370), man (4.27, 1), man (4.23, 1)]

= (1.37 4.1 4.3)

= (1.37 4.1 4.3)

= (1.37 4.1 4.3)

= $\frac{1}{0}$ [1 + $\frac{1}{0}$ [

SNR even poner alloc = 10 log (-tht !H.1 2.PL)

= 5.07 dh 5.74 dh

SNR OPEINISED PONERALL = 10109, (Popei(Hiz))

= 10