IcnirpCalc v 1.5 ©2006-2018 Thilo Kootz DL9KCE

File Infos Language

Input

Ham-Band	80m
Freq. [MHz]	3,50 - 3,80
Antenna	Draht 2x20m
Power [W]	100
Mode	SSB
Antenna Gain (dBi)	2,14
Cable Attenuation [dB]	0,11

Output

E-Field Limit [V/m]	44,63
Modulation Factor	0,50
Intermittend Factor	0,50
Ant. Input Power [W]	97,51
EIRP [W]	159,61

Safty Distance

Distance [m]	0,78
Nearfield Conds [m]	13,63

Antenna | Mode | Cable Attenuation

Mode

( ) CW ( ) FM ( ) DTX
(•) SSB ( ) TV ( ) All
( ) AM ( ) GSM

Factors

Modulation Factor	0,50
Intermittend Factor	0,50
Resulting Factor	0,25

Intermittend Operation

( ) TX6 RX0 ( ) TX4 RX2 ( ) TX2 RX4
( ) TX5 RX1 (•) TX3 RX3 ( ) TX1 RX5

When the safety distance is calculated used powered is averaged over period of 6 minutes. If only 3 minutes in a 6 minutes intervall is used for transmitting (TX3 RX3) mean power is decreased and safety distance as well. Since typical ham radio transmissions are simplex intermittend, declaring half the time as RX time is feasible.

Which Modulation Factors to use?

(•) FCC ( ) 1
( ) BNetzA (Germany)

FCC Value are in compliance with scientific literature

BNetzA Values are in compliance with German law