

EMF Calculator Results



James Colderwood M0ZAH, Eastnor, UK, Somewhere in a field

EMFCAMP-20M-1KW

Radio

Band	20m
Frequency	14.2MHz
Transmit mode	SSB Processed
Mode factor	50% (-3dB)
Transmitter power	1000W (30dBW)
Transmit % in 6 minutes	50% (-3dB)
Average power from transmitter	250W (24dBW)
Peak power from transmitter	1000W (30dBW)

Feeder

Cable type	M&P Ultraflex 10
Loss per 100m	-1.5dB
Cable length	15m
Feeder loss	-0.2dB
Second feeder losses	0dB
Other losses	0dB
Average power into antenna	237.4W (23.8dBW)
Peak power into antenna	949.5W (29.8dBW)

Antenna

Antenna type	custom
Custom gain	2 (3dBi)
Mainlobe EIRP	473.6W (26.8dBW)
Antenna polarization	Vertical
Height of antenna	8m
Directivity factor	0dB
Average EIRP	473.6W (26.8dBW)
Peak EIRP	1894.5W (32.8dBW)



Further assessment required (average power >10W or peak power >100W EIRP)

Please use one of the methods below

ITU-T K.52

ICNIRP 1998 limits	
Compliance distance	6.9m
Vertical separation	6.2m
Required horizontal separation	3.1m

ITU-T K.52

ICNIRP 2020 limits	
Compliance distance	4.1m
Vertical separation	6.2m
Required horizontal separation	0m