

EMF Calculator Results



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

EMFCAMP-40M-100W

Radio

Band	40m
Frequency	7.1MHz
Transmit mode	CW (Morse code)
Mode factor	40% (-4dB)
Transmitter power	100W (20dBW)
Transmit % in 6 minutes	75% (-1.2dB)
Average power from transmitter	30W (14.8dBW)
Peak power from transmitter	100W (20dBW)

Feeder

Cable type	M&P Ultraflex 10
Loss per 100m	-1.2dB
Cable length	15m
Feeder loss	-0.2dB
Second feeder losses	0dB
Other losses	0dB
Average power into antenna	28.8W (14.6dBW)
Peak power into antenna	95.9W (19.8dBW)

Antenna

Antenna type	custom
Custom gain	2 (3dBi)
Mainlobe EIRP	57.4W (17.6dBW)
Antenna polarization	Vertical
Height of antenna	8m
Directivity factor	0dB
Average EIRP	57.4W (17.6dBW)
Peak EIRP	191.4W (22.8dBW)



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	2.5m
Vertical separation	6.2m
Required horizontal separation	0m

ITU-T K.52

ICNIRP 2020 limits	
Compliance distance	1.8m
Vertical separation	6.2m
Required horizontal separation	0m