

# EMF Calculator Results



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EMFCAMP-10M-100W

## Radio

|                                |                 |
|--------------------------------|-----------------|
| Band                           | 10m             |
| Frequency                      | 28.9MHz         |
| 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              | -2dB             |
| Cable length               | 15m              |
| Feeder loss                | -0.3dB           |
| Second feeder losses       | 0dB              |
| Other losses               | 0dB              |
| Average power into antenna | 28W (14.5dBW)    |
| Peak power into antenna    | 93.3W (19.7dBW)  |

## Antenna

|                      |                  |
|----------------------|------------------|
| Antenna type         | custom           |
| Custom gain          | 2 (3dBi)         |
| Mainlobe EIRP        | 55.9W (17.5dBW)  |
| Antenna polarization | Vertical         |
| Height of antenna    | 8m               |
| Directivity factor   | 0dB              |
| Average EIRP         | 55.9W (17.5dBW)  |
| Peak EIRP            | 186.2W (22.7dBW) |



**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            | 2.4m |
| Vertical separation            | 6.2m |
| Required horizontal separation | 0m   |

## ITU-T K.52

|                                |      |
|--------------------------------|------|
| ICNIRP 2020 limits             |      |
| Compliance distance            | 2.3m |
| Vertical separation            | 6.2m |
| Required horizontal separation | 0m   |