

CAP M 6/6/7E/7E F-AC
CAP M 6/6/7E/7E F-DC

MPE limits for FCC, 1.1310

Mode	Frequency MHz	Duty Cycle %	Power dBm	Antenna	Directional	EIRP ⁵ dBm	EIRP mW	ERP ⁷ dBm	ERP W	Distance D cm	PD ⁶ mW/cm ²	PD Limit mW/cm ²	Margin dB	ERP Limit W	PD/PD Limit
				Gain ³ dBi	Antenna Gain ⁴ dBi										
617.0 - 652.0 MHz ¹	634.5	100	29.00	7.0	10.0	39.0	7962	36.86	4.85	110	0.0524	0.423	9.07	5	0.12379
729.0 - 746.0 MHz ²	737.5	100	29.00	7.0	10.0	39.0	7962	36.86	4.85	110	0.0524	0.492	9.73	5	0.10650
746.0 - 756.0 MHz ²	751.0	100	29.00	7.0	10.0	39.0	7962	36.86	4.85	110	0.0524	0.501	9.81	5	0.10459
758.0 - 768.0 MHz ²	763.0	100	29.00	7.0	10.0	39.0	7962	36.86	4.85	110	0.0524	0.509	9.87	5	0.10294

FCC Co-Location = 0.43783 < 1

MPE limits for Innovation, Science and Economic Development Canada, RSS-102 Issue 5

Mode	Frequency MHz	Duty Cycle %	Power dBm	Antenna	Directional	EIRP ⁵ dBm	EIRP W	Distance D m	PD ⁶ W/m ²	PD Limit W/m ²	Margin dB	RSS 102 \$2.5.2 Lim. W	RSS 102 \$2.5.2 Marg. dB	PD/PD Limit
				Gain ³ dBi	Antenna Gain ⁴ dBi									
617.0 - 652.0 MHz ¹	634.5	100	29.00	7.0	10.0	39.0	7.962	1.10	0.524	2.15	6.14	1.078	-8.69	0.24306
729.0 - 746.0 MHz ²	737.5	100	29.00	7.0	10.0	39.0	7.962	1.10	0.524	2.39	6.59	1.194	-8.24	0.21932
746.0 - 756.0 MHz ²	751.0	100	29.00	7.0	10.0	39.0	7.962	1.10	0.524	2.42	6.64	1.209	-8.19	0.21661
758.0 - 768.0 MHz ²	763.0	100	29.00	7.0	10.0	39.0	7.962	1.10	0.524	2.44	6.69	1.222	-8.14	0.21428

Canada Co-Location = 0.89327 < 1

¹TR: 382048TRFWL.pdf

²TR: 382048-1TRFWL.pdf

³TR: 382048-2TRFWL.pdf

⁴TR: 382048-3TRFWL.pdf

⁵EIRP = (Power dBm + Antenna Gain dBi) + 10 x Log (Duty Cycle % / 100

⁶PD = EIRP / (4 π x D^2)

⁷ERP = EIRP - 2,15

⁸Directional Antenna Gain = G_{ANT} + 10 x Log (N_{ANT}/N_{SS}), KDB 662911 D01 §F (2)(e)(i)

where (worst case): N_{ANT} = 2

N_{SS} = 1

⁹G_{ANT}: customer declaration (see user manual, page 18)