

Canada RSS-102 Issue 5 Limits for Devices Used by the General Public (Uncontrolled Environment)

IC: 6468A-4050HF

Frequency	Power (P)	Power	Gain (G)	EIRP	PTT duty cycle	Adjusted EIRP	Electric Field Limit (E)	Magnetic Field Limit (H)	Equivalent Plane Wave Power Density Limit (PD)	Safe Distance (R)
MHz	W (PEP)	W (AVG)	dBi	W	%	W	V/m	A/m	W/m ²	m
1.705	150	75	13	1496	50	748	66.6	0.428	28.5	1.4
10	150	75	13	1496	50	748	27.5	0.0730	2.01	5.4
20	150	75	13	1496	50	748	27.5	0.0728	2.00	5.5
28	150	75	13	1496	50	748	25.2	0.0669	1.69	5.9
1.705	150	75	5	237	50	119	66.6	0.428	28.5	0.6
10	150	75	5	237	50	119	27.5	0.0730	2.01	2.2
20	150	75	5	237	50	119	27.5	0.0728	2.00	2.2
28	150	75	5	237	50	119	25.2	0.0669	1.69	2.4
1.705	150	75	0	75	50	38	66.6	0.428	28.5	0.3
10	150	75	0	75	50	38	27.5	0.0730	2.01	1.2
20	150	75	0	75	50	38	27.5	0.0728	2.00	1.2
28	150	75	0	75	50	38	25.2	0.0669	1.69	1.3
1.705	150	75	1.5	106	50	53	66.6	0.428	28.5	0.4
10	150	75	1.5	106	50	53	27.5	0.0730	2.01	1.4
20	150	75	1.5	106	50	53	27.5	0.0728	2.00	1.5
28	150	75	1.5	106	50	53	25.2	0.0669	1.69	1.6

$$EIRP = P \times 10^{(G/10)}$$

$$PD = E \times H$$

$$R \leq \{EIRP / (4\pi \times PD)\}^{1/2}$$

FCC 1.1310 Limits for Maximum Permissible Exposure (MPE) General Public (Uncontrolled Environment)

FCC ID: OW4-4050HF

Frequency	Power (P)	Power	Gain (G)	EIRP	PTT duty cycle	Adjusted EIRP	Electric Field Limit (E)	Magnetic Field Limit (H)	Equivalent Plane Wave Power Density Limit (PD)	Safe Distance (R)
MHz	W (PEP)	W (AVG)	dBi	W	%	W	V/m	A/m	W/m ²	m
1.6	150	75	13	1496	50	748	515	1.37	705	0.3
10	150	75	13	1496	50	748	82.4	0.219	18.0	1.8
20	150	75	13	1496	50	748	41.2	0.110	4.51	3.6
30	150	75	13	1496	50	748	27.5	0.0730	2.01	5.4
1.6	150	75	5	237	50	119	515	1.37	705	0.1
10	150	75	5	237	50	119	82.4	0.219	18.0	0.7
20	150	75	5	237	50	119	41.2	0.110	4.51	1.4
30	150	75	5	237	50	119	27.5	0.0730	2.01	2.2
1.6	150	75	0	75	50	38	515	1.37	705	0.1
10	150	75	0	75	50	38	82.4	0.219	18.0	0.4
20	150	75	0	75	50	38	41.2	0.110	4.51	0.8
30	150	75	0	75	50	38	27.5	0.0730	2.01	1.2
1.6	150	75	1.5	106	50	53	515	1.37	705	0.1
10	150	75	1.5	106	50	53	82.4	0.219	18.0	0.5
20	150	75	1.5	106	50	53	41.2	0.110	4.51	1.0
30	150	75	1.5	106	50	53	27.5	0.0730	2.01	1.4

$$EIRP = P \times 10^{(G/10)}$$

$$PD = E \times H$$

$$R \leq \{EIRP / (4\pi \times PD)\}^{1/2}$$

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MHz	W (PEP)	W (AVG)	dBi	W	%	W	V/m	A/m	W/m ²	m
1.705	100	50	13	998	50	499	66.6	0.428	28.5	1.2
10	100	50	13	998	50	499	27.5	0.0730	2.01	4.4
20	100	50	13	998	50	499	27.5	0.0728	2.00	4.5
28	100	50	13	998	50	499	25.2	0.0669	1.69	4.8
1.705	100	50	5	158	50	79	66.6	0.428	28.5	0.5
10	100	50	5	158	50	79	27.5	0.0730	2.01	1.8
20	100	50	5	158	50	79	27.5	0.0728	2.00	1.8
28	100	50	5	158	50	79	25.2	0.0669	1.69	1.9
1.705	100	50	0	50	50	25	66.6	0.428	28.5	0.3
10	100	50	0	50	50	25	27.5	0.0730	2.01	1.0
20	100	50	0	50	50	25	27.5	0.0728	2.00	1.0
28	100	50	0	50	50	25	25.2	0.0669	1.69	1.1
1.705	100	50	1.5	71	50	35	66.6	0.428	28.5	0.3
10	100	50	1.5	71	50	35	27.5	0.0730	2.01	1.2
20	100	50	1.5	71	50	35	27.5	0.0728	2.00	1.2
28	100	50	1.5	71	50	35	25.2	0.0669	1.69	1.3

$$EIRP = P \times 10^{(G/10)}$$

$$PD = E \times H$$

$$R \leq \{EIRP / (4\pi \times PD)\}^{1/2}$$

FCC 1.1310 Limits for Maximum Permissible Exposure (MPE) General Public (Uncontrolled Environment)

FCC ID: OW4-4050HF

Frequency	Power (P)	Power	Gain (G)	EIRP	PTT duty cycle	Adjusted EIRP	Electric Field Limit (E)	Magnetic Field Limit (H)	Equivalent Plane Wave Power Density Limit (PD)	Safe Distance (R)
MHz	W (PEP)	W (AVG)	dBi	W	%	W	V/m	A/m	W/m ²	m
1.6	100	50	13	998	50	499	515	1.37	705	0.2
10	100	50	13	998	50	499	82.4	0.219	18.0	1.5
20	100	50	13	998	50	499	41.2	0.110	4.51	3.0
30	100	50	13	998	50	499	27.5	0.0730	2.01	4.4
1.6	100	50	5	158	50	79	515	1.37	705	0.1
10	100	50	5	158	50	79	82.4	0.219	18.0	0.6
20	100	50	5	158	50	79	41.2	0.110	4.51	1.2
30	100	50	5	158	50	79	27.5	0.0730	2.01	1.8
1.6	100	50	0	50	50	25	515	1.37	705	0.1
10	100	50	0	50	50	25	82.4	0.219	18.0	0.3
20	100	50	0	50	50	25	41.2	0.110	4.51	0.7
30	100	50	0	50	50	25	27.5	0.0730	2.01	1.0
1.6	100	50	1.5	71	50	35	515	1.37	705	0.1
10	100	50	1.5	71	50	35	82.4	0.219	18.0	0.4
20	100	50	1.5	71	50	35	41.2	0.110	4.51	0.8
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$$EIRP = P \times 10^{(G/10)}$$

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MHz	W (PEP)	W (AVG)	dBi	W	%	W	V/m	A/m	W/m ²	m
1.705	30	15	13	299	50	150	66.6	0.428	28.5	0.6
10	30	15	13	299	50	150	27.5	0.0730	2.01	2.4
20	30	15	13	299	50	150	27.5	0.0728	2.00	2.4
28	30	15	13	299	50	150	25.2	0.0669	1.69	2.7
1.705	30	15	5	47	50	24	66.6	0.428	28.5	0.3
10	30	15	5	47	50	24	27.5	0.0730	2.01	1.0
20	30	15	5	47	50	24	27.5	0.0728	2.00	1.0
28	30	15	5	47	50	24	25.2	0.0669	1.69	1.1
1.705	30	15	0	15	50	8	66.6	0.428	28.5	0.1
10	30	15	0	15	50	8	27.5	0.0730	2.01	0.5
20	30	15	0	15	50	8	27.5	0.0728	2.00	0.5
28	30	15	0	15	50	8	25.2	0.0669	1.69	0.6
1.705	30	15	1.5	21	50	11	66.6	0.428	28.5	0.2
10	30	15	1.5	21	50	11	27.5	0.0730	2.01	0.6
20	30	15	1.5	21	50	11	27.5	0.0728	2.00	0.6
28	30	15	1.5	21	50	11	25.2	0.0669	1.69	0.7

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1.6	30	15	13.0	299	50	150	515.0	1.369	704.9	0.1
10	30	15	13.0	299	50	150	82.4	0.219	18.0	0.8
20	30	15	13.0	299	50	150	41.2	0.110	4.5	1.6
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1.6	30	15	0.0	15	50	8	515.0	1.369	704.9	0.0
10	30	15	0.0	15	50	8	82.4	0.219	18.0	0.2
20	30	15	0.0	15	50	8	41.2	0.110	4.5	0.4
30	30	15	0.0	15	50	8	27.5	0.073	2.0	0.5
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10	30	15	1.5	21	50	11	82.4	0.219	18.0	0.2
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