

FCC ID: NYOBECROA2207

According to the KDB 447498 D04 Interim General RF Exposure Guidance v01, Appendix B

B.3 MPE Based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Product will be installed with declared separation distance 1mm. Product will be installed in the roof of vehicle. Cabin interior and airgap will be more than 1 mm regardless vehicle type.

Table B.1 Thresholds for single RF sources subject to routine environmental evaluation						
RF Source Frequency			Minimum Distance			Threshold ERP
F_L MHz		F_H MHz	$\lambda_L / 2\pi$		$\lambda_H / 2\pi$	W
0.3	-	1.34	159 m		35.6 m	1,920 R ²
1.34	-	30	35.6 m		1.6 m	3,450 R ² /F ²
30	-	300	1.6 m		159 mm	3.83 R ²
300	-	1,500	159 mm		31.8 mm	0.0128 R ² F
1,500	-	100,000	31.8 mm		0.5 mm	19.2 R ²
Subscripts L and H are low and high; λ is wavelength. From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.						

Frequency (GHz)	Wavelength λ (m)	$\lambda / 2\pi$ (m)	$\lambda / 2\pi$ (mm)	Remark
60	0.004996541	0.000795224	0.795	
64	0.004684257	0.000745523	0.746	
Item	Formula	Value	Unit	Remark
Separation Distance		1	mm	Separation Distance
APPLICABILITY	0.746 mm < 1 mm			APPLICABLE

Item	Formula	Value	Unit	Remark
Threshold ERP	19.2 X R ²	0.0006912	W	
		0.6912	mW	
EIRP of product		3.91	dBm	
ERP of product		1.76	dBm	
		1.50	mW	
Duty		1.00	%	Measured Duty (0.75%) Roundup to 1%
Averaged Power	ERP X Duty	0.0150	mW	
Threshold ERP		0.6912	mW	
Averaged Power		0.0150	mW	

CONCLUSION

Product has less power than Threshold ERP. Product is not subject to routine evaluation.