

250C Spectrum

Federal Regulation 2.989 occupied bandwidth for the 250C Meteorological Radar.

Pulse Width = .4 μ sec

Pulse Rate Frequency = 1400

Frequency = 5600

Major Lobe Width = 5.0MHz

Minor Lobe Width = 2.5MHz

Lobe Area = $\frac{1}{2}$ Lobe Width ($1/\text{LOG}^{-1}$ dB/10)

A5' though A4 = 2.6363

Mean Radiated Power = 2.6363 x .99 = 2.6099

A1' though A2 = 2.5989

Occupied Band Width = 12.5 MHz

Emission designator: 13MOPON

A5' $A = \frac{1}{2} (2.5) (.0015) = .0018$

A4' $A = \frac{1}{2} (2.5) (.0032) = .0040$

A3' $A = \frac{1}{2} (2.5) (.0093) = .0116$

A2' $A = \frac{1}{2} (2.5) (.0182) = .0227$

A1' $A = \frac{1}{2} (2.5) (.0478) = .0597$

A $A = \frac{1}{2} (5) (1.000) = 2.500$

A1 $A = \frac{1}{2} (5) (.0282) = .0352$

A2 $A = \frac{1}{2} (5) (.0032) = .0040$

A3 $A = \frac{1}{2} (5) (.0006) = .0007$

A4 $A = \frac{1}{2} (5) (.0002) = .0002$