

DUTY CYCLE ANALYSIS (Single Data Word):

Description	Total Time	"On" Time
Preamble	4.8 mSec	2.4 E-3 Sec
Header	2.0 mSec	0 Sec
Hopping Sequence	19.2 mSec	8.1 E-3 Sec
Fixed Sequence	20.4 mSec	4.8 E-3 Sec
Inter Word Pause	10 mSec	0 Sec.
Total Transmission	56.4 mSec	15.3 E-3 Sec

In compliance with FCC Rules 15.35(c) the following duty cycle factor is used for all field strength calculations. A 56.4 mSec time window is selected with the on time ratio.

$$\frac{15.3 \text{ E-3 on time}}{56.4 \text{ E-3 total time}} = 0.271 \quad \text{On time to FCC reference limit}$$

$$20 \log (0.271) = - 11.3 \text{ dB} \quad \text{Duty Cycle Ratio}$$