

From: Nester Scott

To: Behnam Ghaffari

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Subject: FCC File No. 0432-EX-PL-2007

Message:

FCC File # 0432-EX-PL-2007

MODULATING SIGNAL DESCRIPTION

The pulse duration is adjustable from 400 nanoseconds to 12 microseconds. Bi-phase (1800) modulation may be employed in minimum intervals of 400 nanoseconds.

The pulse repetition frequency is also adjusted to the mode of operation, but cannot exceed 50 KHz.

NECESSARY BANDWIDTH DESCRIPTION

Simple calculation using the minimum 400 nanosecond pulse/code cell duration yields:

Signal Level	Bandwidth
- 3 dB	2.2 MHz
-10 dB	3.7 MHz
-20 dB	12.7 MHz

These values have been confirmed by measurements.