

Chris Harvey

From: Alice Wong [alice_wong@hkstc.com]
Sent: Tuesday, April 10, 2001 6:21 AM
To: charvey@metlabs.com
Cc: EED - Choy, Kitty
Subject: MET#10762 FCC ID: NF265502 "Hitari Ltd."
Dear Chris,

MET #10762
FCC ID: NF265502
"HITARI LIMITED"

1. Please see attached file "bandwidth" for spectral plots.

2. Duty cycle correction during 100msec:

Each function key send a different series of characters, but packet period
(30.75 msec) never exceeds

a series of 10 long (1.5msec) and short or long pulse may be obtained due to
encoding the worse case

transmit duty cycle would be considered $10 \times 1.5\text{msec} / 30.75\text{msec} = 48.7\%$ duty
cycle.

Duty cycle correction = $20 \log (0.487) = -6.3\text{dB}$

Figure A to C show the characteristics of the pulse train for one of there
functions.

Please see attached file "pulse" for pulse train, long pulse and short
pulse.

Best Regards
Alice

> > Hitari Ltd FCCID: NF265502 MET#10762
> >
> > RC Toy Transmitter (DXX) ... 27.145 MHz ... Section 15.227
> >
> > 1. Please provide spectral plots wide enough to show both the upper and
> > lower bandedges (26.96 MHz and 27.28 MHz) that
> > demonstrate bandedge compliance. The FCC prefers spectral plots rather
> > than tabular data indicating emission levels at the
> > bandedges.
> >
> > 2. Radiated test data indicates a 17 dB difference between the measured
> > peak and average field strength levels. What type of
> > modulation is employed? If pulsed, measurements with an average
> > detector are not permitted. Instead, the peak level is
> > measured, and then the average level is mathematically calculated, based
> > on the duty cycle. If this is the case, please provide
> > time domain plots so that the duty cycle correction factor may be
> > calculated. If the emission is not pulsed, please explain why
> > there is such a large peak to average ratio, since the plots indicate
> > that the emission is narrower than the measurement bandwidth
> > of 100 kHz specified by the test procedure (ANSI C63.4).
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bandwidth.pdf



pulse.pdf

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