Duty Cycle Measurement
On the
501RT01 Reference Tag

Conditions

The tag was set at Channel 1 (2412 MHz) and software enabled that applied a PRBS to
the transmitter at an expected duty cycle of 25%.
The period between pulses was less than 100 mSec with the "On Time" of the pulse
slightly less than 25 uSec.

A Spectrum analyzer was set up to operate in the 0Hz Span mode and other adjustments
to the instrument where made and are shown in the attached photographs. Delta markers
where placed at the On Time and waveform Period transitions as shown in the two
attached photographs.

Duty Cycle Calculation

Duty Cycle (in %) is found by the formula

$$\frac{OnTime}{Period} \text{ X } 100$$

$$\frac{24.97mSec}{99.90mSec} \text{ X } 100 = 24.99\%$$

The duty cycle measured is 24.99%