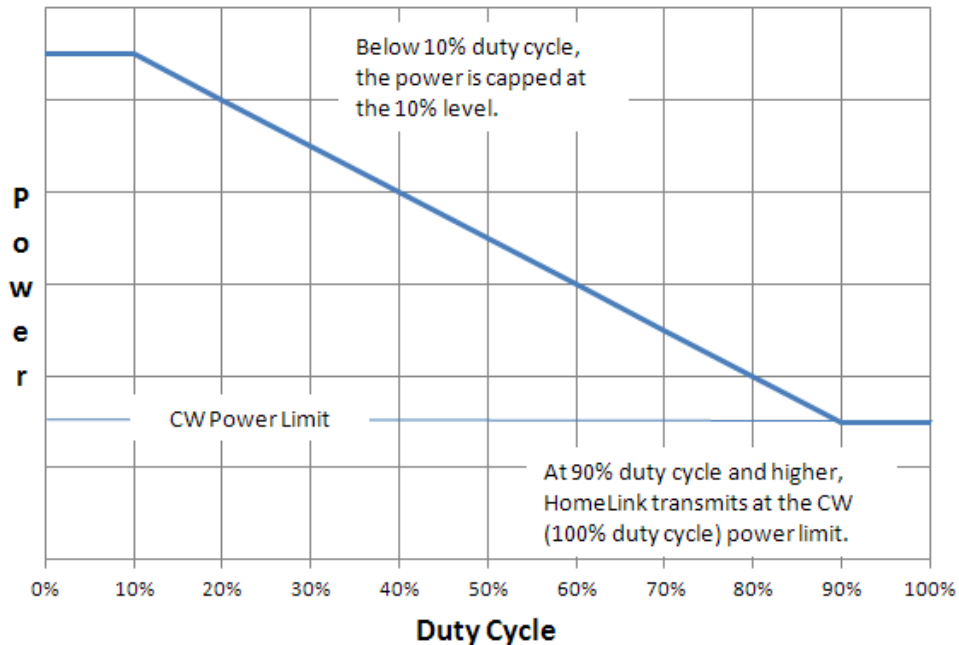


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HomeLink Output Power

For signals below 90% duty cycle, HomeLink adjust its output power according to the duty cycle of the signal it is transmitting. For signals with a duty cycle of 90% or higher, HomeLink treats the signal as though it were 100% duty cycle, and no power correction is applied.



To verify correct operation, I trained the HomeLink module to signals with different duty cycles and measured the output power. I verified that 90% and 95% duty cycles had essentially the same output power, while the power increases for lower duty cycles. Since HomeLink is unable to train to a 100% duty cycle signal, I was unable to include that in the testing.

Duty Cycle	Output Power
5%	70.9 dBuV
10%	70.4 dBuV
20%	63.9 dBuV
30%	63.1 dBuV
40%	59.9 dBuV
50%	57.4 dBuV
60%	56.7 dBuV
70%	55.9 dBuV
80%	55.1 dBuV
90%	54.5 dBuV
95%	54.4 dBuV

Regards,

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