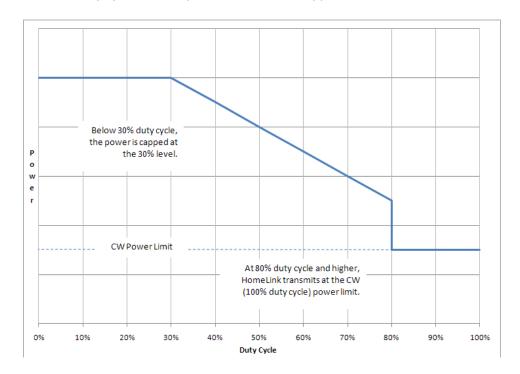
HomeLink Output Power

For signals below 80% 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 80% 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 80% and 90% 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
30%	47.0 dBuV
40%	44.0 dBuV
50%	42.6 dBuV
60%	39.8 dBuV
70%	37.4 dBuV
80%	33.2 dBuV
90%	33.2 dBuV

Regards,

Todd Witkowski Staff Engineer Johnson Controls, Inc. 915 E. 32nd St. Holland, MI 49423