

Wireless Bridge with 2.4GHz Spread Spectrum Transmitter

MEASUREMENT DATA:

Test Method Employed: Jamming Margin

SIG. GEN. FREQ. (MHz)	BER	(S/N) _o (dB)	L _{sys} (dB)	Sig. Gen. Total Peak Power @ Rx (dBm)	Transmitter Total Peak Power @ Rx (dBm)	Jammer to Signal Ratio Mj (dB)	Processing Gain (dB)
Fc - 1.00	0.000020	9.6	2.0	-24.5	-27.9	3.4	15.0
Fc - 0.90	0.000013	9.8	2.0	-24.4	-27.9	3.5	15.3
Fc - 0.70	0.000010	9.9	2.0	-25.9	-27.9	2.0	13.9
Fc - 0.50	0.000015	9.8	2.0	-26.7	-27.9	1.2	13.0
Fc - 0.45	0.000018	9.7	2.0	-26.0	-27.9	1.9	13.6
Fc - 0.40	0.000015	9.8	2.0	-26.2	-27.9	1.7	13.5
Fc - 0.35	0.000012	9.9	2.0	-26.6	-27.9	1.3	13.2
Fc - 0.30	0.000015	9.8	2.0	-26.9	-27.9	1.0	12.8
Fc - 0.25	0.000018	9.7	2.0	-27.6	-27.9	0.3	12.0
Fc - 0.20	0.000011	9.9	2.0	-27.7	-27.9	0.2	12.1
Fc - 0.15	0.000016	9.8	2.0	-28.0	-27.9	-0.1	11.7
Fc - 0.10	0.000020	9.6	2.0	-28.4	-27.9	-0.5	11.1
Fc - 0.05	0.000010	9.9	2.0	-29.2	-27.9	-1.3	10.6
Fc	0.000020	9.6	2.0	-27.8	-27.9	0.1	11.7
Fc + 0.05	0.000010	9.9	2.0	-27.9	-27.9	0.0	11.9
Fc + 0.10	0.000020	9.6	2.0	-27.8	-27.9	0.1	11.7
Fc + 0.15	0.000017	9.7	2.0	-27.9	-27.9	0.0	11.7
Fc + 0.20	0.000016	9.8	2.0	-26.9	-27.9	1.0	12.8
Fc + 0.25	0.000010	9.9	2.0	-26.2	-27.9	1.7	13.6
Fc + 0.30	0.000010	9.9	2.0	-25.8	-27.9	2.1	14.0
Fc + 0.35	0.000012	9.9	2.0	-25.0	-27.9	2.9	14.8
Fc + 0.40	0.000013	9.8	2.0	-24.7	-27.9	3.2	15.0
Fc + 0.45	0.000014	9.8	2.0	-25.3	-27.9	2.6	14.4
Fc + 0.50	0.000020	9.6	2.0	-25.5	-27.9	2.4	14.0
Fc + 0.70	0.000015	9.8	2.0	-25.2	-27.9	2.7	14.5
Fc + 0.90	0.000016	9.7	2.0	-24.5	-27.9	3.4	15.1
Fc + 1.00	0.000013	9.8	2.0	-24.9	-27.9	3.0	14.8
MINIMUM PROCESSING GAIN: 10.6 dB							

- (S/N)_o: Refer to attached curves, BER versus (S/N)_o for Differential Coherent Detection of Differentially Encoded DPSK
- Processing gain $G_p = (S/N)_o + L_{sys} + M_j = (S/N)_o + 2 M_j$