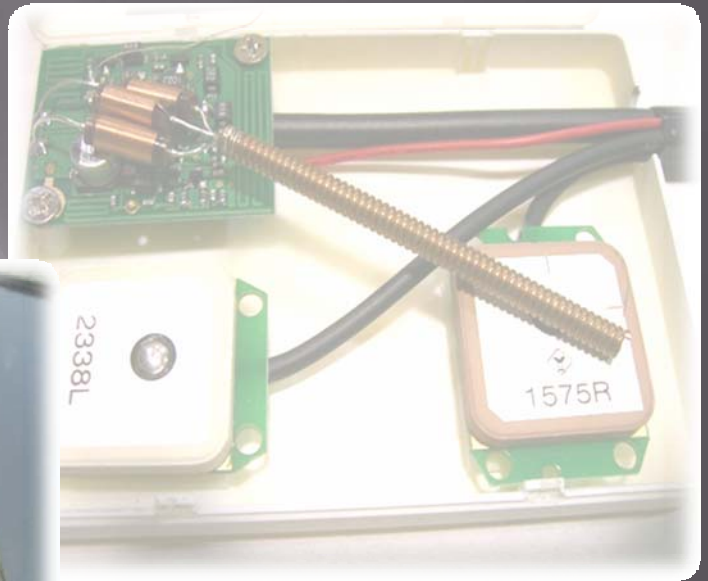


EXC-2000

Cota International's EXC-2000 is an innovative antenna solution for the automotive and trucking industries. The EXC-2000 combines both the functionality of a satellite radio antenna together with a GPS antenna in a sleek, modern design.



COTA International, Inc.

SPECIFICATIONS

Noise Figure	1.0 dB (max)
Operating Frequency Range	2332.5 – 2345 MHz
Total Active Gain (including cables)	19dB – 23dB
Input IP3	-10dBm (min)
Filter attenuation at $f_c +230$ MHz	25 dB (min)
Filter attenuation at $f_c -230$ MHz	25 dB (min)
Nominal Output Impedance	50 Ω
Output VSWR (at antenna connectors)	1.5:1 (max)
P1dB at 1850 – 1990 MHz	-10 dBm (min)
P1dB at 824 – 894 MHz	-4 dBm (min)
P1dB at 450 MHz	-0 dBm (min)
3 rd Order IMRR with respect to SAT1 signal (2333.465 MHz) equal to -100 dBm @ the LNA input. F1 = 1883.565 MHz, F2 = 1433.565 MHz, 3 rd Order tone = 2333.565 MHz	-35 dBm
Mixing IMRR Product with respect to SAT1 signal (2333.465 MHz) equal to -100 dBm @ the LNA input. F1 = 1883.565 MHz, F2 = 450.000 MHz, Mixing Product= 2333.565 MHz	-35 dBm

Elevation Angle, θ (deg)	Minimum Gain	Average Gain
20	0 dBic	+1.5 dBic
25	+0.5 dBic	+1.5 dBic
$30 \leq \theta \leq 60$	+2.0 dBic	+2.0 dBic
0		+2.0 dBiL

Antenna Gain Ripple at the horizon (max-min) = 7 dB.