



REGULATORY TESTING FROM START TO CERTIFICATE

Intro

Antenna gain documentation is required for all FCC Part 15 devices. Must provide either an antenna datasheet/specification or a test report with gain measurements and plots. This information cannot be held confidential. Additionally, proprietary information about the design itself can remain confidential in either the 'operational description' or 'schematic'.

Coral MYLO SRD 868/915 antenna specification

Company: Coral Smart Pool Ltd

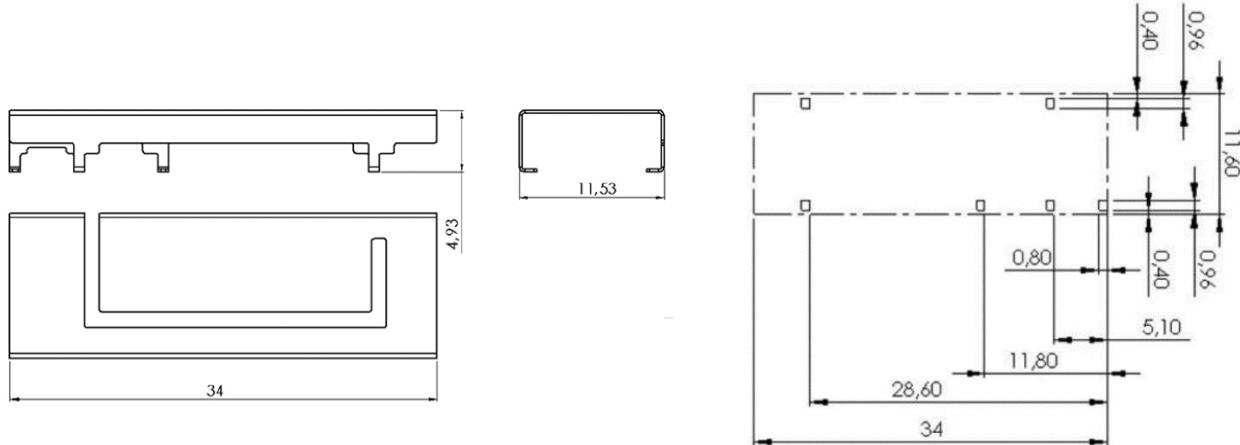
Product name: Coral MYLO - Pool unit & Home unit

RF module/chip: [EFR32FG23](#) (Silicon Labs)

Antenna's description: Metal flange, surface mount, p/n: PRO-OB-471

Antenna type	Surface mount-soldered, mixed linear polarization
Antenna manufacturer	ABRACON
Datasheet	provided
Frequency range	868 MHz / 915 MHz
Modulation	GFSK
Antenna gain max (peak)	865 MHz-1.7dBi / 915 MHz-2.4dBi
Return loss	< -9.9 dB @ 868 band; < -6.6 dB @ 915 band
Connector type	-

1. Antenna layout





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2. Antenna radiation pattern

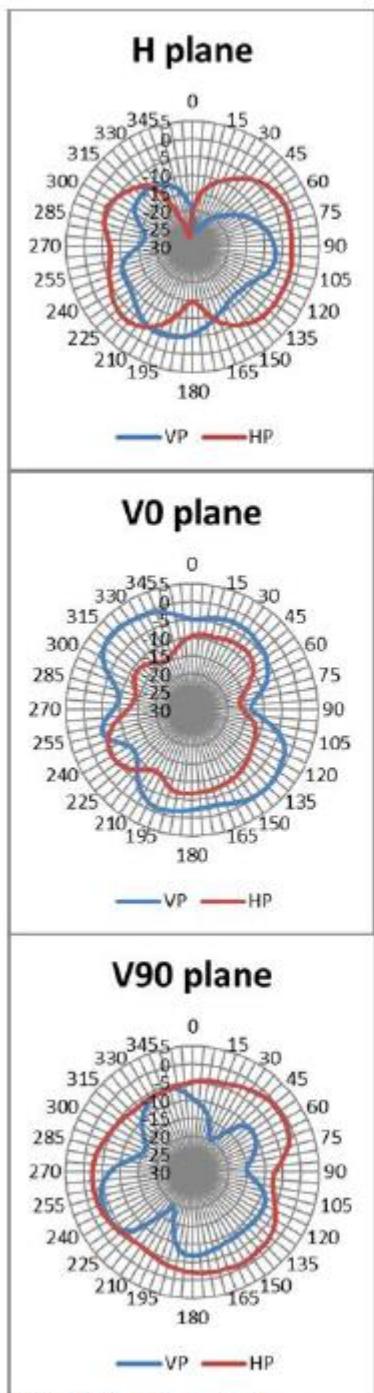
Refer to [Appendix A >>](#)

3. Antenna photo



Appendix A - Radiation Pattern

Radiation Characteristics – 2D Pattern “SMD 868” at 868 MHz

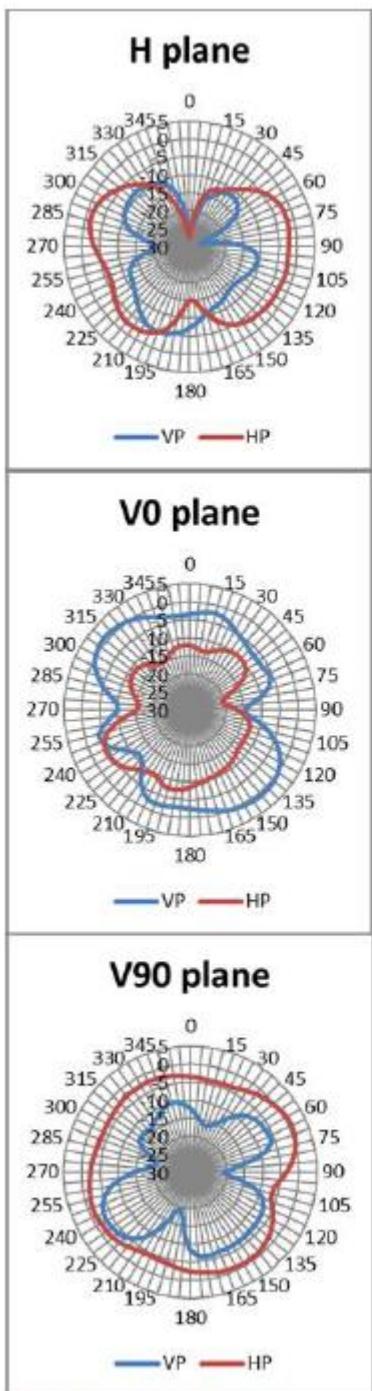


VP: Vertical Polarization
HP: Horizontal Polarization

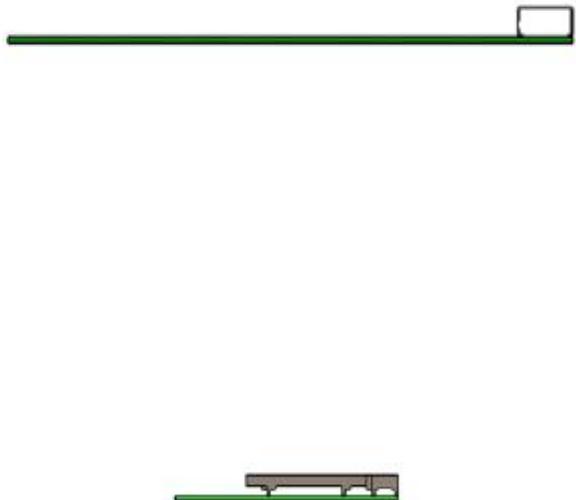


Unit: dBi

Radiation Characteristics – 2D Pattern “SMD 915” at 915 MHz



VP: Vertical Polarization
HP: Horizontal Polarization



Unit: dBi