



Title: AIRSENSE 11 CELLULAR ANTENNA
SPECIFICATIONS - USA/CAN VARIANT

Project/Product PACIFIC

1. Purpose

This document contains the cellular antenna specs for the AirSense 11 Pacific Project, and is applicable to the following device models:

Model Name / Product Code	Marketing Name
39523	AirSense 11 AutoSet USA
39524	AirSense 11 CPAP USA
39525	AirSense 11 Elite USA
39526	AirSense 11 AutoSet CAN
39527	AirSense 11 CPAP CAN
39528	AirSense 11 Elite CAN

2. References

2.1 PCS.26.C - Low Profile LTE SMD Dielectric Antenna covering 600-2170MHz

3. Antenna Description

The AirSense 11 includes the PCS.26.C, an integrated low profile LTE SMD Mount Dielectric Antenna designed for 698 to 2170 Hz, and provides high efficiency over LTE.

3.1 Specifications

The below specifications are extracted from the document ([Ref 2.1](#)) supplied by the antenna manufacturer.

Frequency (MHz)	Efficiency (%)	Average Gain (dBi)	Peak Gain (dBi)
617 ~ 698*	15-60	-9 to -2.2	-5 to 2
698 ~ 806	55-65	-2.8 to -1.8	1.5 to 2
824 ~ 894	58-62	-2.2 to -2	1.6 to 2.2
880 ~ 960*	65-47	-2.0 to -3.2	2.6 to 1.2
1710 ~ 1880	55-65	-3	2.5 to 4.5
1850 ~ 1990	55-60	-3 to -2	2.5

*Data extracted from graphs available in [Ref 2.1](#).

Mechanical	
Dimensions	54.6mm x 13mm x 3.2mm
Weight	2g
Material	FR4
Co-planarity	Follows IPC-TM-650 2.4.22 and has a value of <0.41mm
Environmental	
Storage Temperature *	-40°C to 85°C
Usage Temperature	-40°C to 85°C
Humidity	Non-condensing 65°C 95% RH
Moisture Sensitivity Level	3