



**ResMed**

*AIR 10 CELLULAR ANTENNA SPECIFICATIONS for AIR 10 project*

---

*Title:* AIR 10 CELLULAR ANTENNA  
SPECIFICATIONS

*Project/Product* AIR 10

ResMed Confidential Proprietary Information, not to be reproduced or made available to third parties without prior consent from ResMed and not to be used in any unauthorised way. © ResMed Ltd 2024

---

## 1. Purpose

This document contains the cellular antenna specs for Air 10 devices, and is applicable to the following device models:

Model Name / Product Code	Marketing Name
37158	AirSense 10 CPAP
37159	AirSense 10 Elite
37160	AirSense 10 AutoSet
37161	AirSense 10 AutoSet FH
37162	AirCurve 10 ASV
37163	AirCurve 10 S
37164	AirCurve 10 VAuto
37165	AirCurve 10 ST
28541	AirCurve 10 ST-A
28542	AirCurve 10 ST-A
28405	AirCurve 10 ST-A

28541, 28542 and 28405 are added to the current approval via Class II Permissive Change.

## 2. References

### 2.1 PA.26B Ultra WideBand LTE Ceramic Antenna Specification

## 3. Antenna Description

The PA.26B is an SMT LTE 4G antenna designed for direct SMT mount on the device PCB. It provides high efficiency. The PA.26B operates at all common 4G/3G/2G LTE bands; 698MHz to 960MHz, 1710MHz to 2700MHz.

### 3.1 Specifications

The following information is provided by the antenna manufacturer in Reference 2.1:

Frequency (MHz)	Efficiency (%)	Average Gain (dBi)	Peak Gain (dBi)
698~960MHz	55%	-3.26dB	1.71dBi
1710~2170MHz	57%	-2.71dB	3.03dBi
2300~2400MHz	47%	-3.27dB	1.53dBi

2500~2700MHz	51%	-2.91dB	2.69dBi
--------------	-----	---------	---------

<b>Mechanical</b>	
Dimensions	35*5*6mm
Weight	3g
Material	Ceramic
Termination	Ag (environmental-friendly Pb free)
EVB Connector	SMA(F)
<b>Environmental</b>	
Storage Temperature *	-40°C to 105°C
Usage Temperature	-40°C to 85°C
Humidity	Non-condensing 65°C 95% RH
RoHs Compliant	Yes