

Selection Guidance for ISM Band SMA Antenna

V1.10

In order to maximize the performance of wireless modules, DORJI carefully chooses smart and high efficient SMA antennas with various length and angle for different applications. The table below lists five types of length and two types of angles of antenna with key parameters.

Part Type	Freq.	VSWR	Gain	Imp	Polar	Weight	Height	Con
DAA043SA100N	433+/-5MHz	≤1.5	3.0dBi	50 Ohm	Vertical	10.5g	100mm	SMA
DAA086SA100N	868+/-10MHz	≤1.5	2.15dBi	50 Ohm	Vertical	10.5g	100mm	SMA
DAA091SA100N	915+/-13MHz	≤1.5	2.15dBi	50 Ohm	Vertical	10.5g	100mm	SMA
DAA043SA100S	433+/-5MHz	≤1.5	3.0dBi	50 Ohm	Vertical	9.1g	100mm	SMA
DAA086SA100S	868+/-10MHz	≤1.5	3.0dBi	50 Ohm	Vertical	9.1g	100mm	SMA
DAA091SA100S	915+/-13MHz	≤1.5	3.0dBi	50 Ohm	Vertical	9.1g	100mm	SMA
DAA043SA64S	433+/-5MHz	≤1.5	3.0dBi	50 Ohm	Vertical	7.0g	64mm	SMA
DAA086SA64S	868+/-10MHz	≤1.5	3.0dBi	50 Ohm	Vertical	7.0g	64mm	SMA
DAA091SA64S	915+/-13MHz	≤1.5	3.0dBi	50 Ohm	Vertical	7.0g	64mm	SMA
DAA043SA047S	433+/-5MHz	≤1.5	2.5dBi	50 Ohm	Vertical	5.3g	47mm	SMA
DAA086SA047S	868+/-10MHz	≤1.5	2.5dBi	50 Ohm	Vertical	5.3g	47mm	SMA
DAA091SA047S	915+/-13MHz	≤1.5	2.5dBi	50 Ohm	Vertical	5.3g	47mm	SMA
DAA043SA045N	433+/-5MHz	≤1.5	2.15dBi	50 Ohm	Vertical	7.2g	45mm	SMA
DAA086SA045N	868+/-10MHz	≤1.5	2.15dBi	50 Ohm	Vertical	7.2g	45mm	SMA
DAA091SA045N	915+/-13MHz	≤1.5	2.15dBi	50 Ohm	Vertical	7.2g	45mm	SMA

Table 1: Parameters Comparison Table

PRODUCT IAMGES



Figure 1: DAAxxxSA100N



Figure 2: DAAxxxSA100S



Figure 3: DAAxxxSA064S



Figure 4: DAAxxxSA047S



Figure 5: DAAxxxSA045N

ORDERING INFORMATION

DAA 043 SA 100 N

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Num	Symbol	Meaning
①	Accessory type	Antenna
②	Frequency Band	043: 433MHz 086:869Mhz 091:915Mhz 240: 2.4GHz
③	Antenna interface	SMA male connector
④	Antenna length	100: 100mm 064: 64mm 047: 47mm 045: 45mm
⑤	Antenna angle	N: right angle S: straight

Table 2: Ordering Information

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