

Antenna Specification

1. General Information

Model name	ATM211
Manufacturer	SJIT Co.,Ltd
Antenna Type	PCB printed
# of Antenna	2
Supported band	5.15 ~ 5.875 GHz

2. Antenna Characteristics

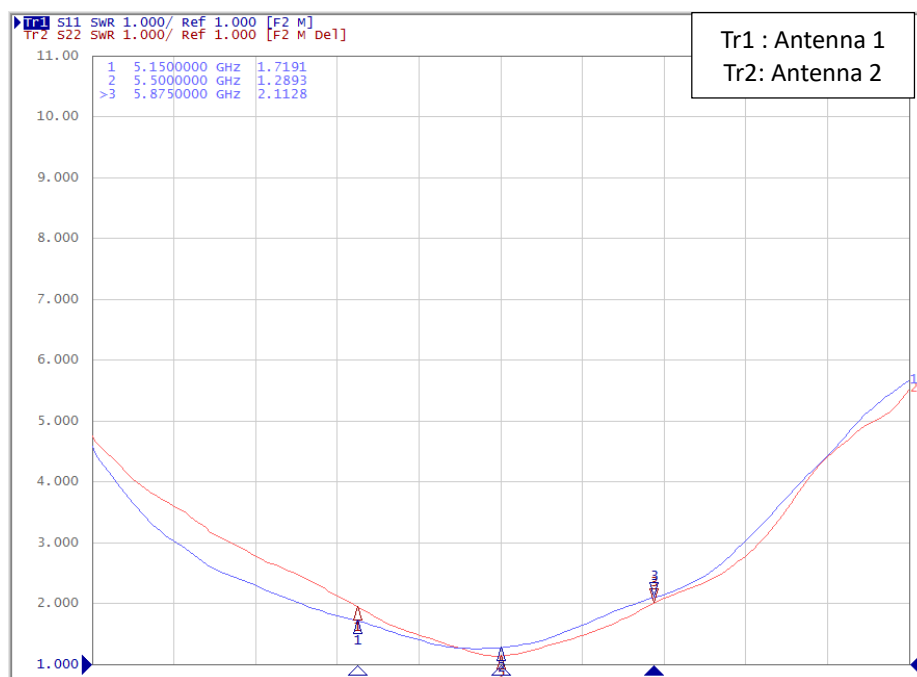
PARAMETER	ANTENNA	CONDITION	MIN	TYP	MAX	UNIT
Frequency Range			5150		5875	MHz
Return loss	ANT1 & ANT2	*Low band		-10		dB
	ANT1 & ANT2	*High band		-10		
Peak Gain	ANT1 & ANT2	Low band			2.8	dBi
	ANT1 & ANT2	High band			2.2	
Average Gain	ANT1	Low band		-1.3		dBi
		High band		-2.5		
	ANT2	Low band		-1.8		
		High band		-1.6		
Efficiency	ANT1	Low band		73		%
		High band		65		
	ANT2	Low band		50		
		High band		67		
Impedance				50		Ω

*low band = 5150~5250MHz, High band = 5725~5875MHz

Antenna Type: PCB Printed antenna



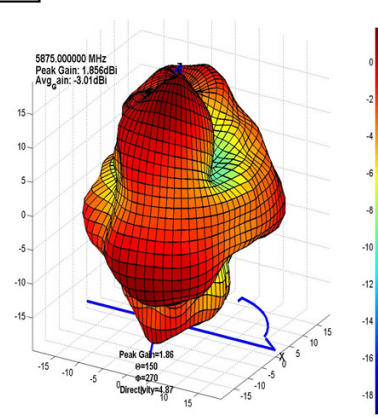
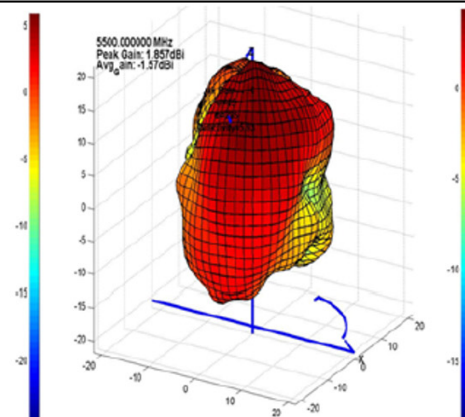
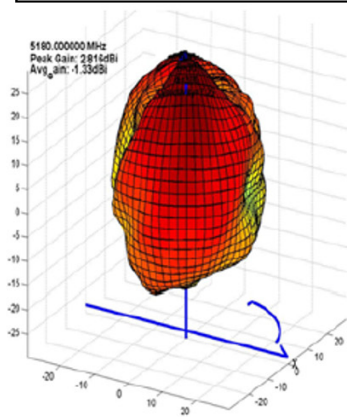
Antenna VSWR



Antenna Efficiency & Gain

Antenna1

Frequency	Efficiency	Average Gain			Max Gain		
		Ver	Hor	Total	Ver	Hor	Total
5180.000000 MHz	73.6 %	-3.3 dBi	-5.7 dBi	-1.3 dBi	1.4 dBi	0.7 dBi	2.8 dBi
5260.000000 MHz	72.1 %	-3.5 dBi	-5.7 dBi	-1.4 dBi	0.9 dBi	0.4 dBi	2.7 dBi
5320.000000 MHz	74.9 %	-3.4 dBi	-5.4 dBi	-1.3 dBi	0.6 dBi	0.0 dBi	2.9 dBi
5400.000000 MHz	72.1 %	-3.7 dBi	-5.3 dBi	-1.4 dBi	0.2 dBi	-0.2 dBi	2.7 dBi
5500.000000 MHz	69.6 %	-4.3 dBi	-4.9 dBi	-1.6 dBi	-0.9 dBi	-0.7 dBi	1.9 dBi
5600.000000 MHz	64.0 %	-5.8 dBi	-4.3 dBi	-1.9 dBi	-2.3 dBi	-0.3 dBi	1.2 dBi
5700.000000 MHz	59.6 %	-8.7 dBi	-3.4 dBi	-2.3 dBi	-5.5 dBi	0.1 dBi	0.4 dBi
5785.000000 MHz	65.3 %	-10.0 dBi	-2.6 dBi	-1.8 dBi	-5.4 dBi	1.1 dBi	1.2 dBi
5825.000000 MHz	64.2 %	-9.8 dBi	-2.7 dBi	-1.9 dBi	-4.7 dBi	0.8 dBi	0.9 dBi
5850.000000 MHz	55.5 %	-6.3 dBi	-4.9 dBi	-2.6 dBi	1.0 dBi	2.3 dBi	2.1 dBi
5875.000000 MHz	49.9 %	-6.8 dBi	-5.4 dBi	-3.0 dBi	0.4 dBi	1.9 dBi	1.9 dBi



Antenna2

Frequency	Efficiency	Average Gain			Max Gain		
		Ver	Hor	Total	Ver	Hor	Total
5180.000000 MHz	48.7 %	-5.8 dBi	-6.5 dBi	-3.1 dBi	-0.3 dBi	-1.2 dBi	1.0 dBi
5260.000000 MHz	58.9 %	-4.7 dBi	-6.0 dBi	-2.3 dBi	0.3 dBi	-0.3 dBi	2.1 dBi
5320.000000 MHz	66.8 %	-4.1 dBi	-5.5 dBi	-1.8 dBi	0.7 dBi	-0.1 dBi	2.4 dBi
5400.000000 MHz	70.3 %	-3.8 dBi	-5.4 dBi	-1.5 dBi	0.9 dBi	0.0 dBi	2.6 dBi
5500.000000 MHz	71.5 %	-3.7 dBi	-5.4 dBi	-1.5 dBi	1.0 dBi	-0.3 dBi	2.3 dBi
5600.000000 MHz	68.3 %	-4.0 dBi	-5.5 dBi	-1.7 dBi	0.8 dBi	-0.6 dBi	2.0 dBi
5700.000000 MHz	63.6 %	-4.6 dBi	-5.4 dBi	-2.0 dBi	0.2 dBi	-0.3 dBi	1.6 dBi
5785.000000 MHz	69.2 %	-4.7 dBi	-4.5 dBi	-1.6 dBi	0.0 dBi	0.4 dBi	2.2 dBi
5825.000000 MHz	69.2 %	-5.0 dBi	-4.2 dBi	-1.6 dBi	-0.2 dBi	0.2 dBi	2.1 dBi
5850.000000 MHz	58.4 %	-5.8 dBi	-4.9 dBi	-2.3 dBi	1.7 dBi	0.5 dBi	2.0 dBi
5875.000000 MHz	49.1 %	-6.6 dBi	-5.6 dBi	-3.1 dBi	0.9 dBi	-0.6 dBi	2.2 dBi

