

ALLISCOM

5.4~5.9GHz Dual Polarization Antenna

Data Sheet



Model No. FA518-CWFKWXLXAS

Features

- Dual Cross Polarization (Linear)
- High performance for 5.4~5.9GHz
- Directional Antenna/ Peak Gain 18dBi
- Waterproof IP67, Metal AL5052 Base
- Resistant to harsh outdoor environment
- RoHS Compliant

Description

The FA518 is a directional, IP67 waterproof antenna for use in transportation and remote monitoring applications. This antenna delivers advanced MIMO antenna technology for WiFi in a compact package. The functions of WiFi include 802.11a/n and emerging 802.11ac. The antenna has its own ground-plane and can radiate on any mounting environment such as metal or plastic without affecting performance. This antenna is particularly suitable for trains, buses and commercial transport applications.

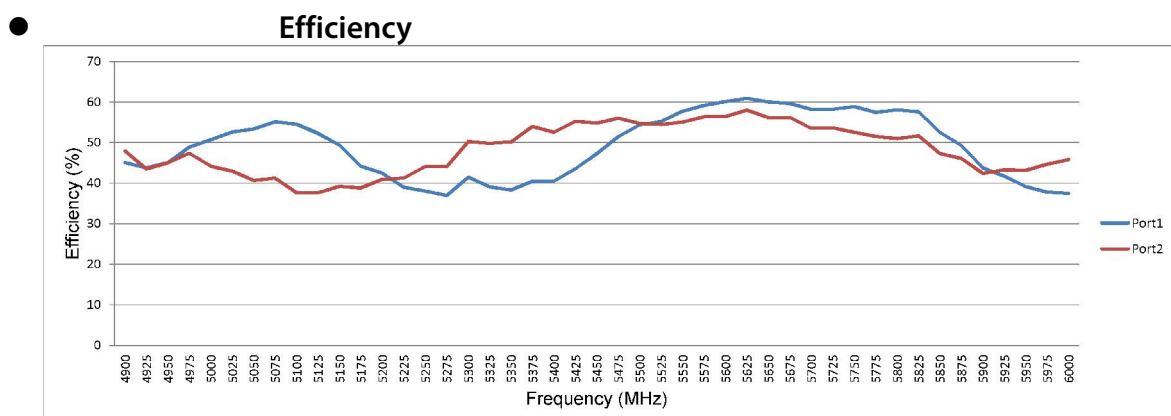
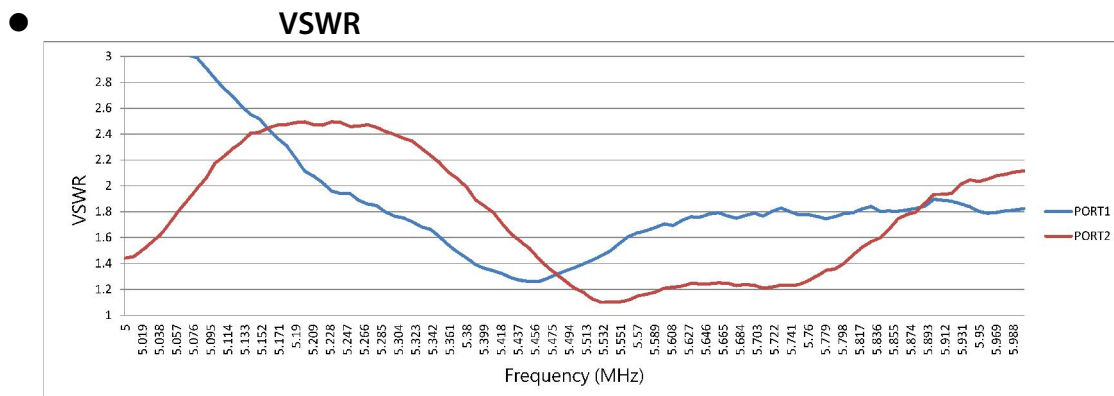
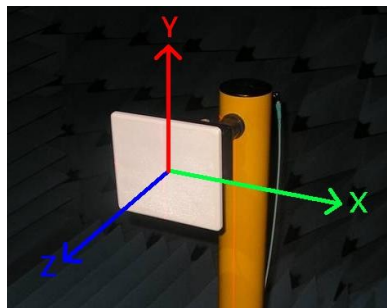
1. Antenna Performance

1.1 Performance

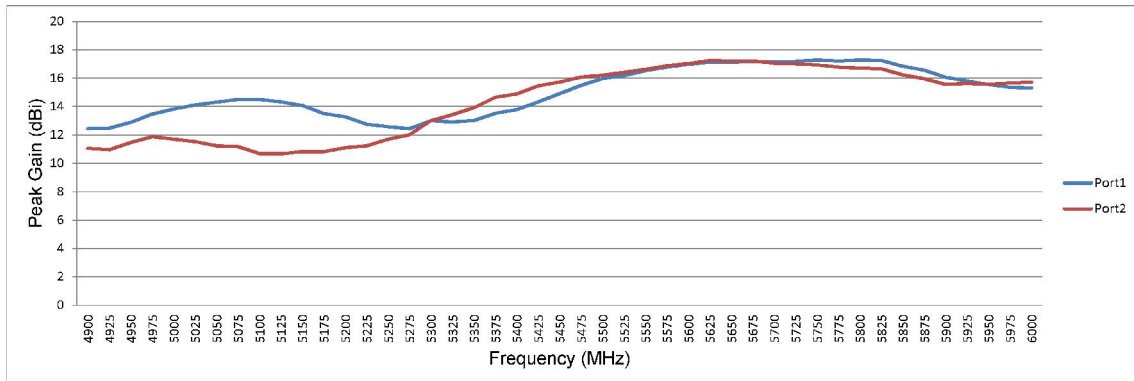
Frequency	5.4~5.9GHz
Peak Gain	18dBi typ.
Efficiency	55% typ.
3dB Beam Width	XZ: 18° / YZ: 18°
VSWR Max.	2.0:1
ECC	< 0.1
Isolation	16dB
Impedance	50Ω
Pattern Type/ Polarization	Directional / Dual Cross Linear

Note: Specifications subject to change without notice.

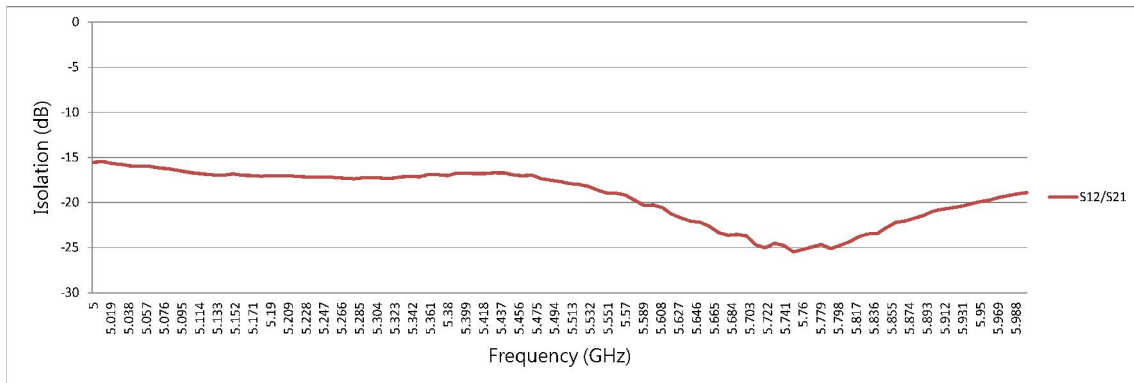
1.2 Antenna Measurement



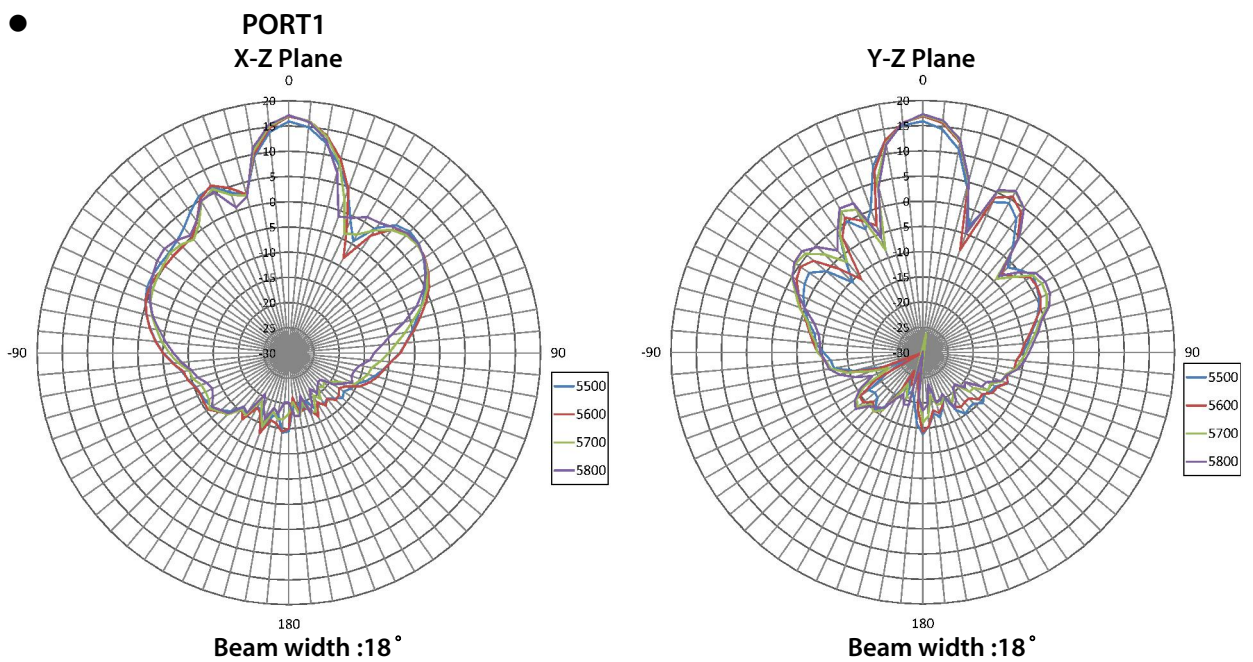
Peak Gain

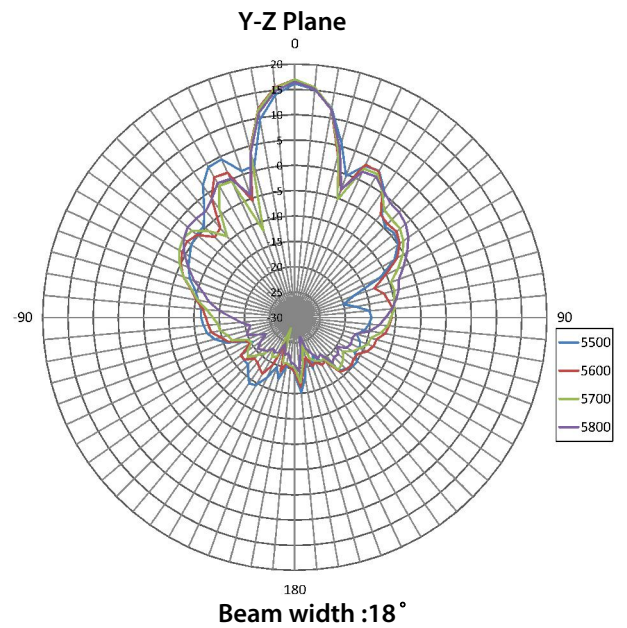
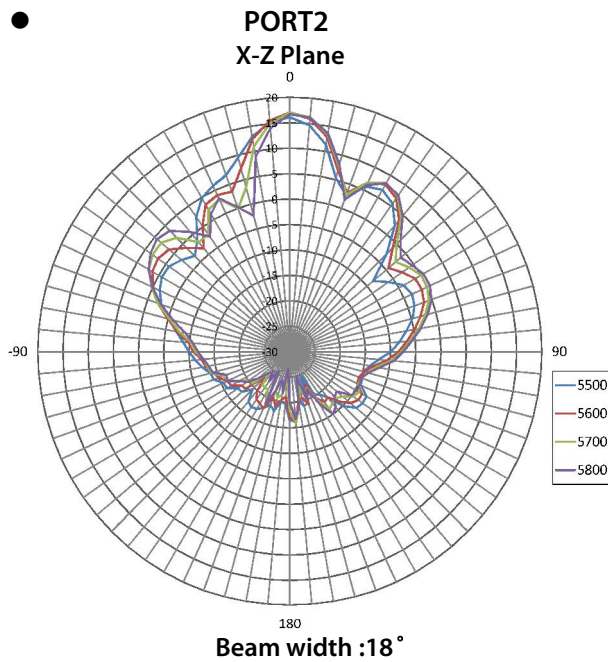


Isolation

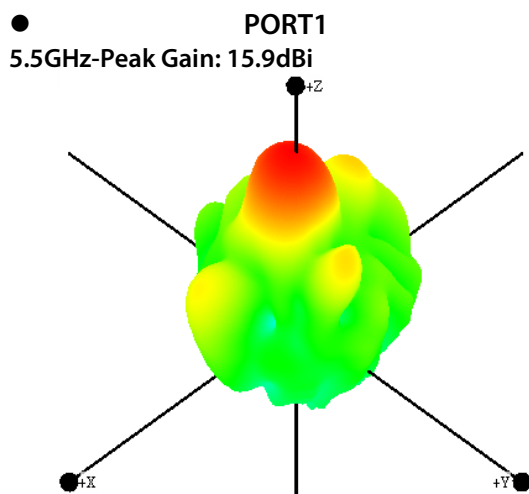


2D Radiation Pattern

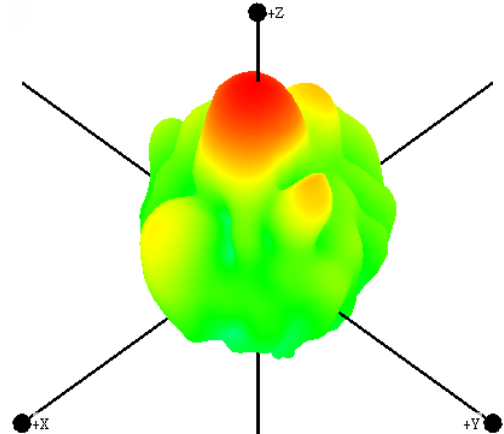




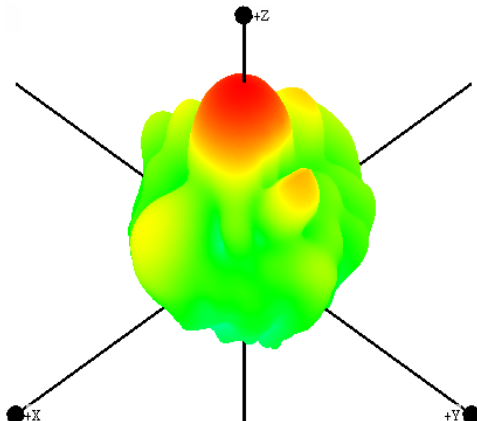
● **3D Radiation Pattern**



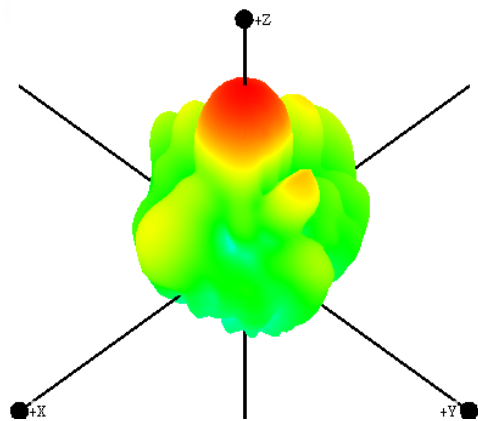
5.6GHz-Peak Gain: 16.9dBi



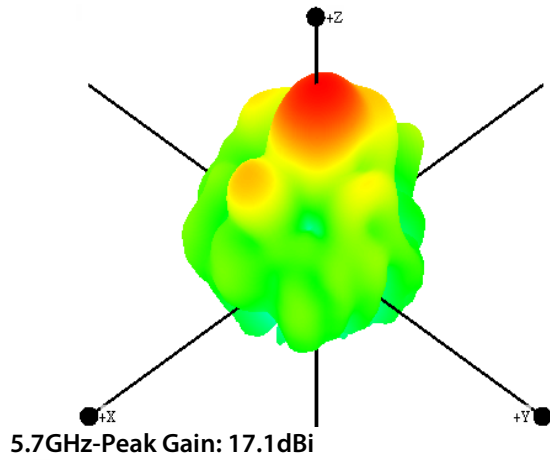
5.7GHz-Peak Gain: 17.1dBi



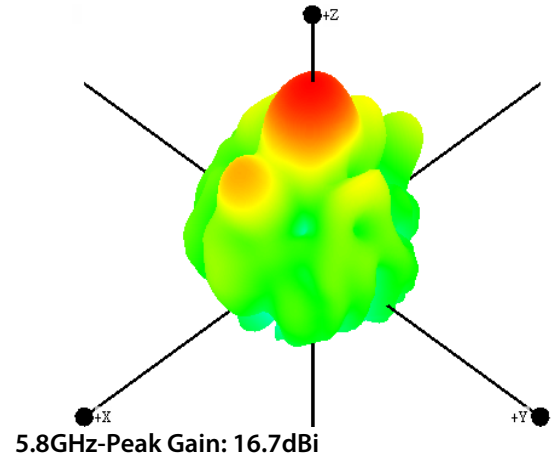
5.8GHz-Peak Gain: 17.2dBi



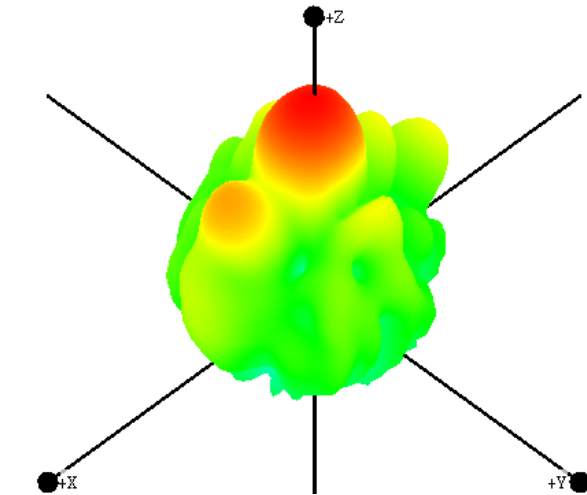
●
PORT2
5.5GHz-Peak Gain: 16.2dBi



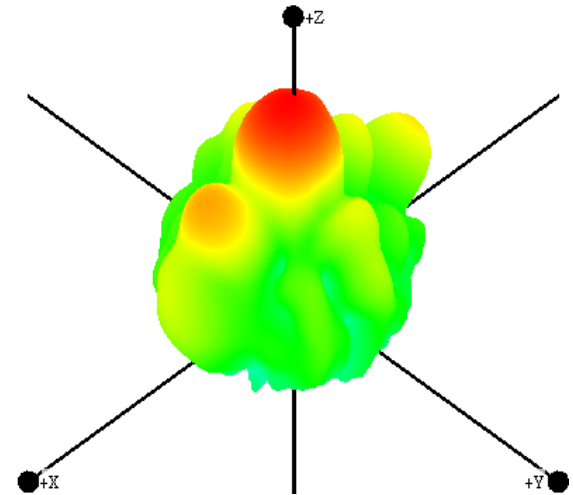
5.6GHz-Peak Gain: 17.1dBi



5.7GHz-Peak Gain: 17.1dBi



5.8GHz-Peak Gain: 16.7dBi

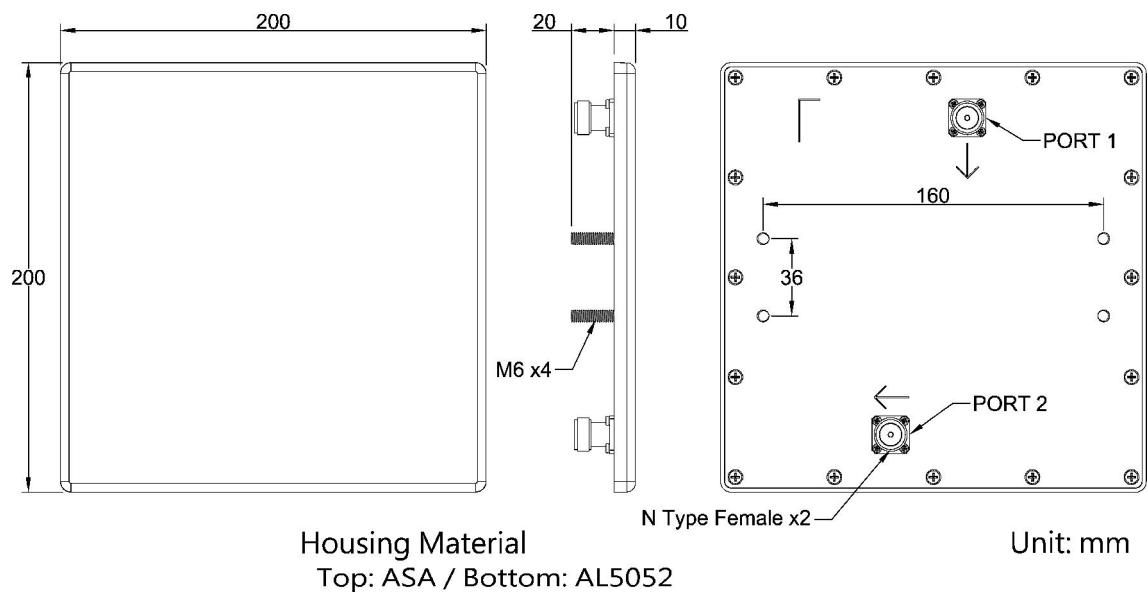


2. Mechanical Specifications

Housing Material	Top: ASA / Bottom: AL 5052
Size	200 *200 *10 mm
Connector	N Type Jack (Female)
Mounting	Permanent mount
Housing Color	White

Note: Specifications subject to change without notice.

● Antenna Dimension



3. Environmental Specification

Operating Temperature	-40°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	95%~100% RH
Degrees of Protection(With Housing)	IP67 (Dustproof and Waterproof)

Note: Specifications subject to change without notice.