

## Cellular/LTE/GSM/GNSS Multiband

Protocol	Active Patch	
	Part Numbers	Bandwidth
Cellular/LTE/GSM/GNSS Multiband Antennas Application: Wide area network Use Case: Voice, broadband cellular	APAMPS-105	806 ~ 960MHz, 1710~1880MHz (Cellular), and 1575.42MHz (Active GPS)
	APAMPS-106	806 ~ 960MHz, 1710~1880MHz (Cellular), and 1575.42MHz (Active GPS)
	AMPSLJ-140	699~960MHz, 1710~2690MHz,(Cellular 3G & 4G LTE), 1559~1606MHz (GPS/GLONASS/Galileo)
	AMPSLJ-142	380 ~ 500 MHz (TETRA), 824 ~ 894 MHz, 880 ~ 960 MHz,1710 ~ 1880 MHz, 1850 ~ 1990 MHz, 1920 ~ 2170 MHz, (Pentaband Cellular /3G), 1572 ~ 1610MHz (Active GPS/GLONASS), 2400 ~ 2497 MHz(WLAN/Bluetooth)
	APAMS-101	820~960MHz, 1710~1990 (Quadband Cellular)
	APAMS-102	820~960MHz, 1710~1880MHz, 1850~1990MHz, 1900~2170MHz (Pentaband Cellular /3G)
	APAMS-103	820~960MHz, 1710~1990 (Quadband Cellular)
	APAMS-104	
	APAMS-119	
	APAMS-131	
	APAMSJ-147	824~960MHz, 1710~2170MHz (Pentaband Cellular / 3G), 1575.42MHz, 1592~1610MHz (Active GPS/GLONASS)
	APAMSTJ-138	380~500MHz (TETRA), 868 MHz (ISM), 824~894 MHz, 900 MHz, 1800 MHz, 1900 MHz, 2100MHz, (Pentaband Cellular / 3G), 2.4 GHz (WiFi)
	APAMPSBJ-144	850 MHz, 900 MHz, 1800 MHz, 1900 MHz, 2100MHz, (Cellular Pentaband /3G), 791~960MHz & 1710~2690MHz, (LTE 4G), 868~915MHz (ISM), 1592 - 1610 MHz, 2.4GHz (Active GPS / GLONASS).

## WiFi/WLAN/Bluetooth/BLE

Protocol	Active Patch		Chip Antennas	
	Part Numbers	Bandwidth	Part Numbers	Bandwidth
WiFi/WLAN/Bluetooth/BLE Application: Local area network, personal network Use Case: Broadband, video, streaming, low power connection	APAMBJ-135	2.4GHz, 5.0GHz	AMCA31-2R450G-S1F-T	2405~2495MHz
	APAMBJ-145	2.4GHz, 5.1~5.9GHz	AMCA72-2R470G-S1F-T	2470MHz
	APAMS-120	2350~2450MHz, 5700~5900MHz	AMCA72-2R860G-02F-T	2860MHz
	APAMS-121		AMCA81-3R010G-S1F-T	3010MHz
	APAMSJ-137	4.85~5.85GHz	AMCA92-2R660G-S1F-T	2660MHz

## GPS/GLONASS/BEIDOU

Protocol	Active Patch		Passive Patch		Active internal	
	Part Numbers	Bandwidth	Part Numbers	Bandwidth	Part Numbers	Bandwidth
GPS/GLONASS/BEIDOU Application: Reception from satellite. Use Case: High stability synchronization, geographic tracking	APAMP-107	1575.42MHz, B/W 10MHz min, 3V ~5V LNA Supply, 25~31dBi Gain	APAE1575R1240ABDD1-T	1575.42MHz	APAMPGJ-141	1575.42MHz
	APAMP-108		APAE1575R1340ABDD6-T		APAM0968JL03V2.0	1575.42 ±1.02
	APAMP-111		APAE1575R1540AZDB2F-T		APAM1068JL01V2.0	
	APAMP-112		APAE1575R1820ABDC1-T		APAM1268JL02V2.0	
	APAMP-113		APAE1575R1840AADB7-T		APAM1348YD13V2.0	
	APAMP-122		APAE1575R1840BADB1F-T		APAM1368YB13V3.0	
	APAMP-125		APAE1575R2040ABDD2-T		APAM1568YE15V2.0	
	APAMP-126		APAE1575R2520ABDD7-T		APAM1866YA18	
	APAMP-127		APAE1575R2540AADBE-T		APAM2764YK0175	
	APAMP-109		APAES1575R1040J34-T		APAMPGJ-141	
	APAMP-110		APAE1575R2540BBDB1-T		1575.42MHz	
	APAMP-115		APAE1590R1340AKDB2-T		GPS1575MHz, GLONASS 1598MHz~ 1606MHz	
	APAMP-116		APAE1590R1350AKDB5-T			
	APAMP-123	APAE1590R2540AKDB1-T				
	APAMP-124	1575.42MHz, B/W 10MHz min, 2.5V ~3.5V LNA Supply, 25~31dBi Gain	APAEA1575R0940K14-T	GLONASS 1606MHz		
	APAMP-128					
	APAMP-129					
	APAMP-114		1575.42MHz, B/W 10MHz min, 2.5V ~6V LNA Supply, 24~28dBi Gain			
	APAMPG-117		1575.42MHz, 1594~1610MHz, B/W 8 & 16MHz min, 2.8V ~5V LNA Supply, 30dBi Gain			
	APAMPG-130	1575.42MHz, B/W 10MHz min, 2.7V ~5.5V LNA Supply, 12~14dBi Gain				
	APAMPJ-132	1575.42MHz, B/W 10MHz min, 1.8V ~5.0V LNA Supply, 13~17dBi Gain				
	APAMPJ-133	1575.42MHz, B/W 10MHz min, 1.8V ~5.0V LNA Supply, 13~17dBi Gain				

## Patch Antenna Optimization Services

Abracon provides custom PCB test services that help match patch antennas to your board and system, delivering optimal gain, efficiency and range.

### Step 1. PLACE YOUR ORDER

Place the order with your distributor using manufacturer part number: ABAOS-5WK.

### Step 2. SHIP YOUR SYSTEM

Ship your RF system and selected antenna to Abracon.

### Step 3. WE TUNE AND OPTIMIZE

An optimized patch antenna design and new part number that matches your exact system will be generated within 5 weeks.

### Step 4. GO TO MARKET

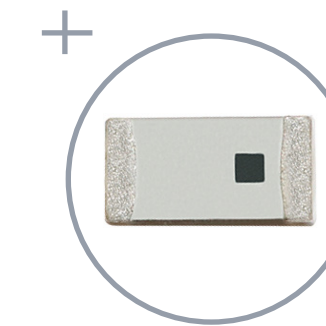
Use the new custom part number and you're ready for production.

## Featured Products



### ACAJ-109 Compact Chip Antenna

Multiband 824MHz to 2170MHz with peak gain ranging from 1.3 to 6.4dBi with a 24x5.5x4.4mm footprint. Ideal protocols include GSM850, GSM900, DCS, PCS, & UMTS.



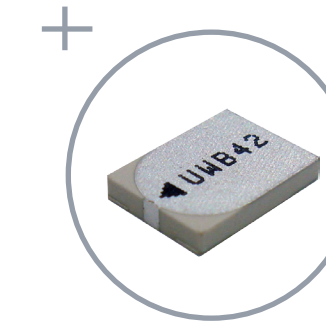
### AMCA31-2R450G-S1F Miniature Chip Antenna

Provides an average -1dBi of gain over 2405 MHz to 2495MHz in a compact 3.2x1.6x1.2mm and is ideal for IoT and wearables using Bluetooth, WiFi or Zigbee protocols.



### APAMPSBJ-144 External Active Multiband Antenna

Covers AMPS, GSM, DCS, PCS, 3G/4G, WiFi/ Bluetooth, LTE. IP67, IK09, IP69K approved and ideal suit for vehicular systems, industrial, commercial and infrastructure applications.



### ACA-107 Ultrawide band Antenna

Optimized for ultra-wideband (UWB) application operating from 3200 to 7200MHz. Applications include multi-gigabit broadband and high accuracy real time location tracking (RTLS). (8.0 x 6.0 x 1.2mm)

## FLEXIBLE NFC ANTENNAS

Abracon's flexible near field communications (NFC) antennas are designed to operate at 13.56MHz. NFC is a set of RF communications protocols that transmit data at very close range, requiring the transmit and receive antennas to be within a few centimeters from each other. NFC is useful in applications where the two devices come in close contact with each other for example identity authentication cards, payment systems, asset tracking and file or picture sharing at close range.



FLEXIBLE NFC	
PN	BANDS AVAILABLE (MHz)
ANFCA-1510-A02 ANFCA-2515-A02 ANFCA-2525-A02 ANFCA-3225-A02 ANFCA-4030-A01 ANFCA-4030-A02 ANFCA-4040-A02	13.56