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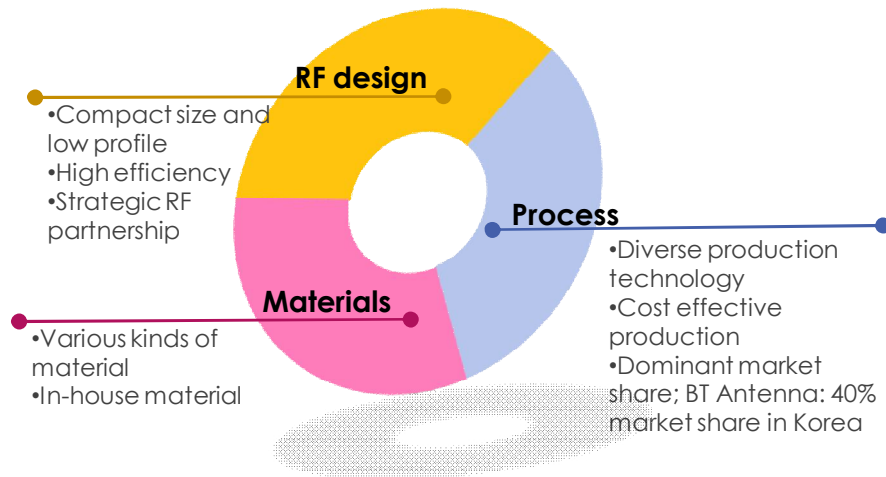
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AMOTENNA

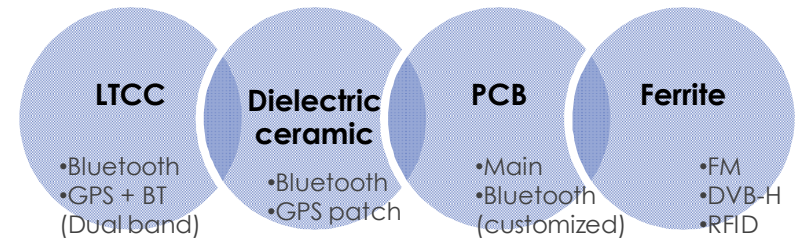
Based on advanced material technology and excellent RF design, Amotech's Antennas offer customers with best solutions for the numerous applications which cover from hand held devices to automotive areas. From very low frequencies for FM antennas to UWB antennas, Amotech is dedicated to leading antenna technology



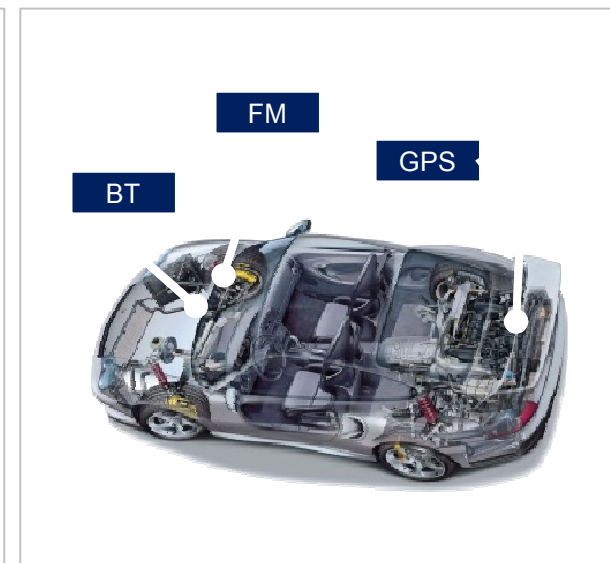
Core Competitiveness



Various Materials for Antennas



Application



Bluetooth / Wifi ANTENNAS

Features

- LTCC chip type – Low cost
- Dielectric chip type – Space saving
- New chip type – Less sensitive to ground effect
- FPCB type – Space saving
- Frequency : 2400~2485 MHz

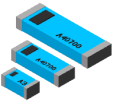

Applications

- PDA
- Mobile phone
- DMB phone
- Laptop
- Headset
- Car entertainment
- MP3
- USB dongles

Technology

- Accumulated in-house production technology involving ceramic process
- Optimization of antenna performance and customization based on various application experiences
- Strong R&D design capability



Type	Part Number	Size (mm)	VSWR	Gain (dBi)	
				Average	Peak
Helical type - MAC Mono-pole 	ALA321C3	3.2x1.6x1.2	3.0:1	-1.6	2.3
	ALA621C4	6.0x2.0x1.2	2.5:1	-1.0	3.5
	ALA621C5	6.0x2.0x1.2	2.5:1	-1.0	3.5
	ALA931C5	9.0x3.0x1.2	2.5:1	-0.5	3.5
	ALA931C5	9.0x3.0x1.2	2.5:1	-0.5	3.5
	ALA131C3	11.0x3.0x1.2	2.5:1	-0.5	4.0
DCA Mono-Pole	AMAN4020112MS01	4.0x2.0x1.2	3.0:1	-1.6	2.6
PIFA type 	AMAN542012	5.4x2.0x1.2	2.5:1	-1.0	3.8
	AMAN542015	5.4x2.0x1.5	2.5:1	-1.0	3.8
	AMANAN602012	6.0x2.0x1.2	2.5:1	-0.5	3.6
	AMAN802012	8.0x2.0x1.2	2.5:1	-0.5	3.7
	AMANAN802015	8.0x2.0x1.5	2.5:1	-0.5	3.7
	AMAN903012	9.0x3.0x1.2	2.5:1	-0.5	3.6
	AMAN903015	9.0x3.0x1.5	2.5:1	-0.5	3.6

GPS ANTENNAS

Features

- GPS Chip Antennas
- GPS Patch Antennas
- GPS/Glonass Antennas
- GPS/Bluetooth Antennas



Applications

- Automotive
- Navigator
- PDA
- DSC

Technology

- No 1 market share in automotive GPS built in navigation system
- Matching service based on various experience
- High yield & capacity lead to competitive price and short term delivery
- Small size Antenna
- RoHS compliant



Type	Part Number	Size (mm)	Frequency (MHz)	Gain@zenith (dBi)	Axial Ratio (dBi)	Polarization	G/P Size (mm)
Patch type 	A13	13x13x4	GPS(L1)	-0.7	6.9	RHCP	14x20
	A15	15x15x4	GPS(L1)	0.9	2.7	RHCP	30x30
	A18	18x18x4	GPS(L1)	3.4	2.0	RHCP	50x50
	A20	20x20x4	GPS(L1)	4.8	2.1	RHCP	60x60
	A25	25x25x4	GPS(L1)	5.8	0.9	RHCP	70x70
	B35	35x35x3	GPS(L1)	2.39	3.1	RHCP	35x35
	S18	18x18x4	SDARS	4.8	2.0	LHCP	70x70
	S25	25x25x4	SDARS	5.0	2.0	LHCP	70x70
	A12-2D	12x12x2	GPS(L1)	-4.5	3.0	RHCP	12x12
	A13-2D	13x13x2	GPS(L1)	-4.2	3.0	RHCP	13x13
	A15-2D	15x15x2	GPS(L1)	-3.0	3.0	RHCP	15x15
Type	Part number	Size	Frequency (MHz)	Average Gain	Peak Gain	Polarization	VSWR
Chip type (Mono Block) 	AMAN903012	9x3x1.2	1575.42	-0.72	3.08	Linear	2.5:1
	AMAN103040	10x3x4.0	1575.42	-0.32	3.12	Linear	2.5:1
	AMAN1603025	16x3x2.5	1575.42	-0.26	3.88	Linear	2.5:1

FM ANTENNAS

Features

- Chip Antennas
- Chip Antenna with Radiator
- PCB type




Applications

- Mobile phone
- PDA
- DSC

Technology

- Matching service based on various experiences
- Strong R&D design capability
- Small size
- Wide bandwidth
- RoHs compliant



Type	Part Number	Size (mm)	Frequency (MHz)	VSWR	Remark
Chip 	AMFA1003015V1	10x3x1.5	87.5 ~ 108	6:1	
	AMFA120502V1	12.5x5x2	87.5 ~ 108	6:1	
Chip with Radiator 	AMFA1003015F1	10x3x1.5+α	87.5 ~ 108	6:1	
PCB 	AMFA2505008P1	25x5x0.8	87.5 ~ 108	6:1	

MULTI FUNCTION ANTENNAS

Features

- GPS + BT Antenna
- GPS + Glonass Antenna
- WLAN dual band Antenna
- UWB Antenna



Applications

- Laptop
- Portable device

Technology

- Wide bandwidth
- Small size
- Less sensitive to hand effect



Type	Part Number	Size (mm)	Frequency (MHz)	VSWR	Avg. Gain (dBi)
GPS+BT 	AMAN1603040	16x3x4	1575~1585	2.5:1	-0.01
			2400~2485	2.5:1	0.0
GPS + Glonass	C25-4102925-STD70	25 x25x4	1575	2.0:1	4.0dBic @zenith
			1592~1608	2.0:1	2.5dBic @zenith
WLAN dual band 	AMAN1003030	10x3x3	2400 ~2685 5150~5850	2.5:1	-2.0
				2.5:1	-2.0

MAIN ANTENNAS & RFID

Features

- Main Chip Antennas
- ISM band Antenna
- RFID

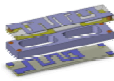


Technology

- Small size
- High durability
- Available to use on metal (30~70mm communication)

Applications

- Mobile phone
- PDA



Type	Part Number	Size (mm)	Frequency	VSWR	Gain (dBi)	
					Average	Peak
Main Chip Antenna 	AMMAQ001	24.0x5.5x4.4	GSM850, DCS, PCS, UMTS	4:1	-	4
	AMMAQ002	22.0x5.5x4.4	GSM900, DCS, PCS, UMTS	3:1	-	3
ISM 	B12	12x12x4	2400~2485MHz	3:1	-1.1	4.3 @ zenith
	AMAN903012ST05	9.0x3.0x1.2	434MHz	2:1	-8	-4.1
		9.0x3.0x1.2	868MHz	2:1	-7	-3.4
		9.0x3.0x1.2	915MHz	2:1	-4	-1.3
RFID 	AMA433V1	12.5x5.0x2.0	433MHz	3.5:1	-5	-