



TRadio

TAITIEN

Dielectric Resonator Filter



Ceramic Antenna / PCB Antenna
FPC Antenna / Miniature SMD Antenna

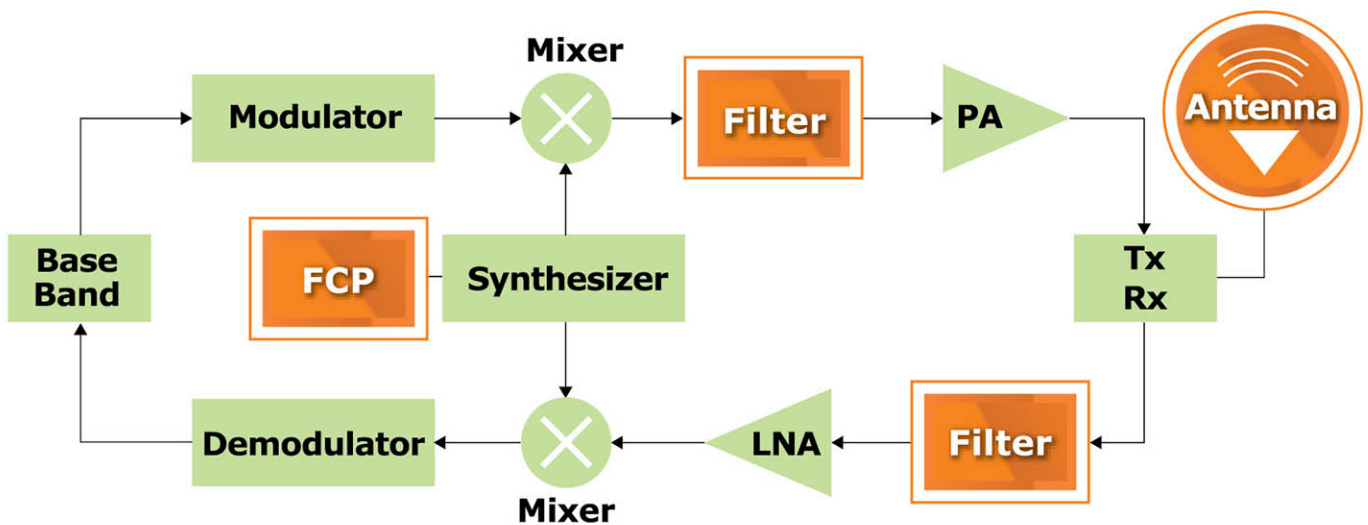
Profile

Taitien, headquartered in New Taipei City of Taiwan, has an established overseas service network in US, India, Japan and China for global customers, and Taitien will continue to expand its technological service network in fields of WiFi (11 ac, 11 ax), IoT, 5G Femto cell, V2X and GNSS according to new trends.

Vision

Our vision is to provide customers with quick solutions of RF filter and antenna, bundled with frequency control products (FCP), in wireless network applications.

Bundle FCP, Antenna and Filter in RF Front-end System for WLAN



Product Bundle



Filter - Application Field

5th Generation Mobile Communication Filter

PRODUCT NAME	FREQUENCY	PACKAGE (mm ³)	FREQ. RANGE	I.L (dB, max)	ATTENUATION	FEATURE
 1N03500M341 	3500 MHz	3.6 x 4.4 x 1.85	3400~3600 MHz	2.5	8dB @ 3320~3680 MHz	• Miniature SMD Type
 1N03700M341	3700 MHz	3.6 x 4.16 x 1.85	3600~3800 MHz	2.5	8dB @ 3520~3880 MHz	• Miniature SMD Type
 1N03500MF61 	3500 MHz	15.9 x 6.2 x 4.4	3400~3600 MHz	2	25dB @ 3320~3680 MHz	• Low Insertion Loss
 1N03700MF61	3700 MHz	15.9 x 6.2 x 4.4	3600~3800 MHz	2	25dB @ 3520~ 3880 MHz	• Low Insertion Loss

WiFi 5 GHz DR Ceramic Filter (802.11n/ac/ax application)

PRODUCT NAME	FREQUENCY	PACKAGE (mm ³)	FREQ. RANGE	I.L (dB, max)	ATTENUATION	FEATURE
 1N05235M831 	5235 MHz	8.6 x 3 x 4.05	5150~5330 MHz	3	50dB @ 5490~5850 MHz	• High Suppresion in out Band
 1N05697M831 	5697 MHz	8.6 x 3 x 3.45	5490~5850 MHz	2.5	50dB @ 5150~5330 MHz	• High Suppresion in out Band
 1N05245M831 	5245 MHz	8.6 x 3 x 4.05	5150~5340 MHz	2	30dB @ 5480~5850 MHz	• Tight Tolerance
 1N05665M831 	5665 MHz	8.46 x 3 x 3.45	5480~5850 MHz	2	35dB @ 5150~5340 MHz	• Wide Bandwidth
1N05250M831 	5250 MHz	8.6 x 3 x 4.05	5170~5330 MHz	2.5	40dB @ 5490~5935 MHz	• High Suppresion in out Band
1N05710M831 	5710 MHz	8.6 x 3 x 3.45	5490~5935 MHz	2.5	40dB @ 5170~5330 MHz	• High Suppresion in out Band
1N05240M321 	5240 MHz	3.25 x 2.58 x 1.85	5140~5340 MHz	1.5	19dB @ 5150~5340 MHz	• Low Insertion Loss • Miniature SMD Type
1N05670M321 	5670 MHz	3.25 x 2.58 x 1.85	5480~5860 MHz	1.5	19dB @ 5150~5340 MHz	• Low Insertion Loss • Miniature SMD Type

WiFi 2.4 GHz DR Ceramic Filter

PRODUCT NAME	FREQUENCY	PACKAGE (mm ³)	FREQ. RANGE	I.L (dB, max)	ATTENUATION	FEATURE
 1N02474MB71 	2474 MHz	11.5 x 7.1 x 4.3	2464~2484 MHz	2.5	30dB @ 2425 MHz	• Narrow Bandwidth
 1N02442MF61 	2442 MHz	15.9 x 6.9 x 4.3	2400~2485 MHz	2	52dB @ 2580~2625 MHz	• High Suppresion in out Band • Narrow Bandwidth
1N02414MF41 	2414 MHz	15.9 x 4.4 x 6.8	2401~2427 MHz	3	38dB @ 2452~2472 MHz	• High Suppresion in out Band
1N02424MF41 	2424 MHz	15.9 x 4.4 x 6.8	2402~2447 MHz	3	30dB @ 2479~2481 MHz	• Tight Tolerance
1N02462MF41 	2462 MHz	15.9 x 4.4 x 6.66	2452~2472 MHz	2.7	30dB @ 2401~2427 MHz	• Tight Tolerance
1N02480MB71 	2480 MHz	11.5 x 7.2 x 4.45	2470~2490 MHz	2.5	38dB @ 2402~2447 MHz	• High Suppresion in out Band

GPS Filter

PRODUCT NAME	FREQUENCY	PACKAGE (mm ³)	FREQ. RANGE	I.L (dB, max)	ATTENUATION	FEATURE
1N01575M531 	1575 MHz	5.1 x 3.7 x 1.8	1573.5~1576.5 MHz	1.5	30dB @ 900 MHz	• Low Insertion Loss • Narrow Bandwidth

DSRC (V2V) DR Filter

PRODUCT NAME	FREQUENCY	PACKAGE (mm ³)	FREQ. RANGE	I.L (dB, max)	ATTENUATION	FEATURE
 1N05825M831 	5825 MHz	8.6 x 3.35 x 2.9	5725~5925 MHz	1.5	35dB @ 4995 MHz	• Low Insertion Loss

Antenna - Application Field

4G LTE Antenna

PRODUCT NAME	TYPE	PACKAGE (mm³)	FREQ. RANGE	EFFICIENCY (%)	FEATURE
 ET00830M031	SMD, Ceramic	37 x 5 x 5	700~960 MHz 1710~2170 MHz 2500~2700 MHz	40% @ 700 MHz 70% @ 2170 MHz 42% @ 2700 MHz	• Linear • Tri-bands Antenna • SMD without Cable
 ET00830M030	SMD, PCB FR4	40 x 8 x 3.2	700~960 MHz 1710~2170 MHz 2500~2700 MHz	40% @ 700 MHz 70% @ 2170 MHz 42% @ 2700 MHz	• Linear • Tri-bands Antenna • SMD without Cable
 CN01700M030	FPC	120 x 30 x 0.15	700~2700 MHz	55% @ 2700 MHz	• Linear • Tri-bands Antenna

Cellular 3G / 2G Antenna

PRODUCT NAME	TYPE	PACKAGE (mm³)	FREQ. RANGE	EFFICIENCY (%)	FEATURE
 ED10892M872	SMD, Ceramic	30 x 5 x 5	824~960 MHz 1710~2170 MHz	55% @ 824 MHz 60% @ 2170 MHz	• Linear • Miniature SMD Type
 ED00920M881	SMD, PCB FR4	31 x 6 x 3.3	880~960 MHz 1710~2170 MHz	25% @ 915 MHz 50% @ 2170 MHz	• Linear • Miniature SMD Type
 ED00892M0Y4	FPC	36 x 20 x 0.6	824~960 MHz 1710~2170 MHz	30% @ 824 MHz 30% @ 960 MHz 50% @ 1710 MHz 55% @ 2170 MHz	• Linear • Connector I-PEX(F)
 FD00892M424	External 3G WCDMA	107 x 15 x 6	824~960 MHz 1710~2170 MHz	50% @ 824 MHz 70% @ 2170 MHz	• Linear • Cable 1M, RG 174, SMA

WiFi / Bluetooth / Zigbee Antenna

PRODUCT NAME	TYPE	PACKAGE (mm³)	FREQ. RANGE	EFFICIENCY (%)	FEATURE
 EN02450M3K4	FPC	47 x 6 x 1	2400~2500 MHz	40% @ 2450 MHz	• Linear • Connector I-PEX(F)
 EN02450M9M4	FPC	21 x 21 x 0.15	2400~2500 MHz	60% @ 2450 MHz	• Linear • Connector I-PEX(F)
 BN02450M3B2	Ceramic Patch	10 x 10 x 4	2400~2500 MHz	-5 dBi, Zenith	• Linear • Directional Pattern
 BN02450M672	Ceramic Patch, SMD	12 x 12 x 4	2400~2500 MHz	2 dBi, Zenith	• Linear • Directional Pattern
 BN02450M4A2	Ceramic Patch	25 x 25 x 4	2400~2500 MHz	Peak Gain +5.0 dBi	• Linear • Directional Pattern
 DN02450M5M1	Miniature SMD	3.05 x 1.6 x 0.55	2400~2500 MHz	Peak Gain: 1.0 dBi	• Linear • Small Size
 DD02450M0E1	Ceramic, Dual band	10 x 4 x 1.5	2400~2500 MHz 4900~5850 MHz	68% @ 2450 MHz 74% @ 5150 MHz	• Linear • High Efficiency
 DD02450M5M1	Miniature SMD, Dual band	3.05 x 1.6 x 0.55	2400~2500 MHz 5150~5825 MHz	75% @ 2450 MHz 80% @ 5150 MHz	• Linear • Small Size • Dual Bands

NB-IoT Antenna

	PRODUCT NAME		TYPE	PACKAGE (mm³)	FREQ. RANGE	EFFICIENCY (%)	FEATURE
NEW	EN00850M031		NB-IoT, Ceramic	37 x 5 x 5	700~1000 MHz	41% @ 700 MHz 60% @ 800 MHz	• Linear • Dual Bands • High Efficiency
HOT	GN00868M030		NB-IoT, Ceramic	15 x 4 x 1.2	868 or 915 MHz	58% @ 868 MHz 59% @ 915 MHz	• Linear • Small Size
HOT	ED20892M872		NB-IoT and WiFi 2.4 GHz, Ceramic	30 x 5 x 5	824~960 MHz 2400~2500 MHz	50% @ 824~960 MHz 40% @ 2.4~2.5 GHz	• Linear • Dual Bands • Combo 2 in 1 Antenna

GNSS Antenna

	PRODUCT NAME		TYPE	PACKAGE (mm³)	FREQ. RANGE	EFFICIENCY (%)	FEATURE
	BN01575M642		Ceramic Patch, GPS	18 x 18 x 4	1575.42 MHz	2.5 dBic Tyc.	• RHCP • Directional Pattern
HOT	BD01575M642		Ceramic Patch, GPS Glonass	18 x 18 x 4	1575.42 MHz 1602 MHz	-0.5 dBic Tyc.	• RHCP • Directional Pattern • Dual Bands
HOT	BT01575M642		Ceramic Patch, GPS Glonass Beidou	18 x 18 x 4	1575.42 MHz 1602 MHz 1561.098 MHz	-0.5 dBic Tyc.	• RHCP • Directional Pattern • Tri Bands
	BN01575M602		Ceramic Patch, GPS	25 x 25 x 4	1575.42 MHz	3.5 dBic Tyc.	• RHCP • Directional Pattern
HOT	BD01575M602		Ceramic Patch, GPS Glonass	25 x 25 x 4	1575.42 MHz 1602 MHz	2 dBic Tyc.	• RHCP • Directional Pattern • Dual Bands
HOT	BT01575M602		Ceramic Patch, GPS Glonass Beidou	25 x 25 x 4	1575.42 MHz 1602 MHz 1561.098 MHz	1.8 dBic Tyc.	• RHCP • Directional Pattern • Tri Bands
HOT	DT01575M5M1		Miniature SMD, GPS Glonass Beidou	3.05 x 1.6 x 0.55	1575.42 MHz 1602 MHz 1561.098 MHz	-1.54 dBi	• Linear • Small Size • Tri Bands
HOT	DD01575M5M1		Miniature SMD, GPS WiFi 2.4 GHz	3.05 x 1.6 x 0.55	1575.42 MHz 2.4 GHz	Omni Radiation Pattern 55% @ GPS 65% @ WiFi	• Linear • Small Size • Dual Bands

GNSS Active Antenna

	PRODUCT NAME		TYPE	PACKAGE (mm³)	FREQ. RANGE	EFFICIENCY (%)	FEATURE
HOT	BN01575M070		Ceramic Patch, GPS	10 x 10 x 6	1575.42 MHz	-3 dBic / 25 dB	• RHCP • High Receiving Gain
HOT	BN01575MZ70		Ceramic Patch, GPS	21.4 x 18.4 x 6.8	1575.42 MHz	1 dBic / 15 dB	• RHCP • Low Noise Figure (1.5Max)

Drone Antenna

	PRODUCT NAME		TYPE	PACKAGE (mm³)	FREQ. RANGE	EFFICIENCY (%)	FEATURE
HOT	BN02450M620		Ceramic Patch with PCB, 2.4 GHz	25 x 25 x 4.5	2450 MHz	0.5 dBi	• RHCP • Directional Pattern
HOT	BD02450M602		Ceramic Patch with PCB, GPS	32 x 32 x 7	2400~2500 MHz 5700~5870 MHz	1 dBi @ 2450 MHz 1 dBi @ 5800 MHz	• Linear • Directional Pattern • Dual Bands

RFID, NFC Antenna

	PRODUCT NAME		TYPE	PACKAGE (mm³)	FREQ. RANGE	EFFICIENCY (%)	FEATURE
HOT	BN00915M5A2		Ceramic Patch, RFID	47.5 x 47.5 x 6.5	915 MHz	0 dBi	• RHCP • Ground Plate (85 x 79mm²)
	BN00866M0K2		Ceramic Patch, RFID	71.1 x 71.1 x 6.6	865~867 MHz	1 dBic	• RHCP • Ground Plate (102 x 99mm²)
	IN00013M030		FPC, NFC	54.9 x 67.5 x 0.3	13.56 MHz	VSWR3.0 Max	• Linear • I-PEX

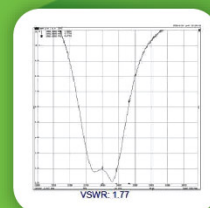


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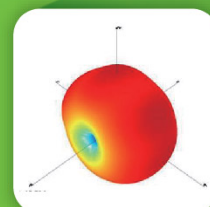
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