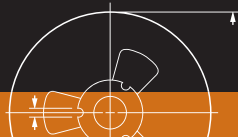


HIGH FREQUENCY PRODUCTS



HF Product Selection Charts

GPS patch antenna and active module

GPS patch antenna (CP)								
Dimensions (mm)	Frequency range	Band width* (MHz)	Gain* (dBic/Max.)	Polarization	Axial ratio	VSWR*	Temp. range (°C)	Packing (Bulk)
12x12x2	1575±2 MHz	4	-1.5	Circular	< 3	< 2.5	-40 to 125	CAN4313422021581B
12x12x4		9	-1					CAN4313422031581B
13x13x4		6	0					CAN 4313422991581B
15x15x2		5	1					CAN4313423021581B
15x15x4		8	2					CAN4313423031581B
18x18x2		5	1					CAN4313424021581B
18x18x4		10	4					CAN4313424031581B
25x25x2		10	5					CAN4313425021581B
25x25x4		20	5.5					CAN4313425031581B

Note: " * " marks that the value depends on the Yageo demoboard

GPS patch antenna (LP)							
Dimensions (mm)	Frequency range	Band width* (MHz)	Gain* (dBi/Max.)	Polarization	VSWR*	Temp. range (°C)	Packing (Bulk)
15x10x4	1575±2 MHz	8	1	Linear	< 2.5	-40 to 125	CAN4313445011581B
16x06x4							CAN4313446011581B

Note: " * " marks that the value depends on the Yageo demoboard

GPS active module							
Dimensions (mm)	Frequency range	Polarization	LNA Gain* (dB/Max.)	Noise Figure* (dB/Typical)	Current Consumption (mA/Max.)	Temp. range (°C)	Packing (Bulk)
13x13x5.5	1575±2 MHz	Circular	17	1.5	5	-30 to 85	CAN4313434881581B
13x13x7.5			17	1.5	5		CAN4313434861581B
15x15x7.5			15.1	2.5	3		CAN4313434621581B
15x15x7.5			15.1	2.5	3		CAN4313435621581B
16x16x7.5			17	1.5	5		CAN4313435921581B
19x19x5.5			30	1.5	6		CAN4313437951581B
19x19x7.5			30	1.5	6		CAN4313437931581B
21x15x7.5			17	1.5	5		CAN4313435951581B
28x28x5.5			30	1.5	6		CAN4313439921581B
28x28x7.5			30	1.5	6		CAN4313439911581B

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永景科技有限公司

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HF Product Selection Charts

UHF, Dual-band and Triple-band antenna

UHF ceramic antenna									
Dimensions (mm)	Frequency range*	Band width (MHz)	Gain* (dBi/Max.)	Polarization	Azimuth	VSWR*	Temp. range (°C)	Packing	
								Bulk	Tape
4x12x1.5	400-500 MHz	> 20	0.5	Linear	Omni-directional	< 3.0	-40 to 125	---	CAN4311129200431K
6.2x3.0x1.5	1.575 GHz	100	1			< 2.0	-55 to 125	----	CAN4311113011582K
37.5x6.8x0.9	433 MHz	> 20	0.5			< 3.0	-55 to 125	CAN4313121200431B	CAN4311121200431K
	460 MHz					CAN4313121200461B		CAN4311121200461K	
	490 MHz			CAN4313121200491B	CAN4311121200491K				

TDMA ceramic antenna									
Dimensions (mm)	Frequency range*	Band width (MHz)	Gain* (dBi/Max.)	Polarization	Azimuth	VSWR*	Temp. range (°C)	Packing	
								Bulk	Tape
12x1.6x4	800-900 MHz	> 20	0.5	Linear	Omni-directional	< 2.0	-40 to 125	---	CNA4311129080871K
16.5x14x0.9	850-950 MHz	> 80	-0.25			< 2.5	-55 to 125	CAN4313119000871B	---

DECT/WCDMA ceramic antenna									
Dimensions (mm)	Frequency range*	Band width (MHz)	Gain* (dBi/Max.)	Polarization	Azimuth	VSWR*	Temp. range (°C)	Packing	
								Bulk	Tape
8.8x6.8x0.9	1.88-2.1 GHz	> 100	2.0	Linear	Omni-directional	< 2.0	-55 to 125	---	CAN4311112001881K

Wimax ceramic antenna									
Dimensions (mm)	Frequency range*	Band width (MHz)	Gain* (dBi/Max.)	Polarization	Azimuth	VSWR*	Temp. range (°C)	Packing	
								Bulk	Tape
10x0.6x1.2	2.3-2.7 GHz	> 100	2.0	Linear	Omni-directional	< 3.0	-25 to 85	---	CAN4311861002371K

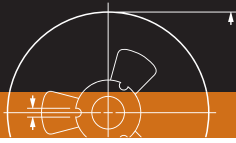
Dual-band WLAN ceramic antenna									
Dimensions (mm)	Frequency range*	Band width (MHz)	Gain* (dBi/Max.)	Polarization	Azimuth	VSWR*	Temp. range (°C)	Packing	
								Bulk	Tape
8.7x8.0x0.9	2.45 / 5.2 GHz	> 100	3.5 / 1.5	Linear	Omni-directional	< 2.5	-55 to 125	---	CAN4311117002521K

Dual-band ceramic antenna (900/1800 MHz)									
Dimensions (mm)	Frequency range*	Band width (MHz)	Gain* (dBi/Max.)	Polarization	Azimuth	VSWR*	Temp. range (°C)	Packing	
								Bulk	Tape
21x12x0.9	880-960 MHz	> 30	0.5 -1	Linear	Omni-directional	< 2.7	-55 to 125	CAN4313118009181B	---
	1710-1880 MHz	> 170	0.5 -1						

Triple-band metal antenna (900/1800/1900MHz with cable / connector)									
Dimensions (mm)	Frequency range*	Band width (MHz)	Gain* (dBi/Max.)	Polarization	Azimuth	VSWR*	Temp. range (°C)	Packing	
								Bulk	Tape
35x6x0.4	880-960 MHz	> 80	0.5-1.5	Linear	Omni-directional	< 3.5	-40 to 85	CAN4313330009191B	---
	1850-1990 MHz	> 170	1.5-2.5						

Note: " * " marks that the value depends on the Yageo demoboard





HF Product Selection Charts

Bluetooth antenna

Bluetooth antenna								
Dimensions (mm)	Frequency range	Band width* (MHz)	Gain* (dBi/Max.)	Polarization	Azimuth	VSWR*	Temp. range (°C)	Packing (Tape)
2.0x1.2x1.1	2.45 GHz	> 70	4	Linear	Omni-directional	< 2.5	-55 to 125	CAN4311714002454K
3.2x1.6x1.2	2.20 GHz	> 100	5			< 2.5	-55 to 125	CAN4311712022453K
	2.30 GHz					CAN4311712032453K		
	2.40 GHz					CAN4311712042453K		
	2.45 GHz					CAN4311712002453K		
	2.50 GHz					CAN4311712052453K		
	2.60 GHz					CAN4311712062453K		
	2.70 GHz					CAN4311712072453K		
	2.80 GHz					CAN4311712082453K		
	2.90 GHz					CAN4311712092453K		
5.0x1.0x1.0	2.30 GHz	2.45	2.45			< 2.0	-25 to 85	CAN4311851032453K
	2.40 GHz					CAN4311851042453K		
	2.80 GHz					CAN4311851052453K		
	3.10 GHz					CAN4311851062453K		
	3.30 GHz					CAN4311851072453K		
	3.70 GHz					CAN4311851082453K		
5.3x2.0x1.3	2.00 GHz	> 200	5.5			< 2.0	-25 to 85	CAN4311153002001K
	2.10 GHz					CAN4311153002101K		
	2.20 GHz					CAN4311153002201K		
	2.30 GHz					CAN4311153002301K		
	2.40 GHz			CAN4311153002401K				
	2.45 GHz			CAN4311153002451K				
7.8x3.6x0.9	2.45 GHz	4.1	4.1	< 2.5	-55 to 85	CAN4311115002451K		
	2.60 GHz			CAN4311115002601K				
	2.70 GHz			CAN4311115002701K				
7.3x5.5x1.3	2.45 GHz	> 100	1.2	< 2.0	-55 to 125	CAN4311111002451K		
	2.60 GHz			CAN4311111002601K				
	2.70 GHz			CAN4311111002701K				
	2.80 GHz			CAN4311111002801K				
	2.90 GHz			CAN4311111002901K				
8.0x1.0x1.0	2.10 GHz	3	3	< 2.5	-55 to 125	CAN4311881012453K		
	2.20 GHz			CAN4311881022453K				
	2.30 GHz			CAN4311881032453K				
	2.45 GHz			CAN4311881042453K				
	2.50 GHz			CAN4311881052453K				
	2.60 GHz			CAN4311881062453K				
	2.70 GHz			CAN4311881072453K				
	2.80 GHz			CAN4311881082453K				

Note: " * " marks that the value depends on the Yageo demoboard



HF Product Selection Charts

Band pass filter and Low pass filter

Band Pass Filter								
Dimensions (mm)	Frequency range*	Pass band (MHz)	Impedance	Insertion loss	Ripple	VSWR*	Attenuation (Min.)	Packing (Tape)
1.6x0.8x0.65	2.45 GHz	2400-2500	50 ohm	2.2 dB	0.5 dB	< 2.0	25 dB @ 1710-1910 MHz	CFL4111715012454K
							8.5 dB @ 2100 MHz	
							20 dB @ 4800-5200 MHz	
							30 dB @ 7200-7500 MHz	
2.0x1.25x0.85	2.45 GHz	2400-2500		2.0 dB	0.6 dB		40 dB @ 1000-1600 MHz	CFL4111714032454K
2.0x1.25x0.9	2.45 GHz	2400-2500		2.8 dB	0.5 dB		40 dB @ 1600 MHz	CFL4111714992454K
							38 dB @ 3200 MHz	
							20 dB @ 4800 MHz	
2.0x1.25x1.0	5 GHz	4900-5950		1.5 dB	0.6 dB		30 dB @ 1280-3000 MHz	CFL4111714015004K
							25 dB @ 3300-4000 MHz	
							25 dB @ 9800-11900 MHz	
2.0x1.25x0.85	5 GHz	4900-5900	2.2 dB	0.6 dB	25 dB @ 6850-7150 MHz	CFL4111714035004K		
					20 dB @ 7500-9000 MHz			
2.5x2.0x0.95	2.45 GHz	2400-2500	2.5 dB	0.6 dB	40 dB @ 880-960 MHz	CFL4111713022453K		
					30 dB @ 2100 MHz			
					30 dB @ 4800-5000 MHz			
2.5x2.0x0.95	2.45 GHz	2400-2500	1.5 dB	0.6 dB	30 dB @ 7200-7500 MHz	CFL4111713032453K		
					40 dB @ 880-960 MHz			
					30 dB @ 1710-1785 MHz			
2.5x2.0x0.95	2.45 GHz	2400-2500	2.2 dB	0.6 dB	30 dB @ 1850-1910 MHz	CFL4111713032453K		
					20 dB @ 4800-5000 MHz			
					30 dB @ 7200-7500 MHz			
2.5x2.0x0.95	2.45 GHz	2400-2500	1.5 dB	0.6 dB	30 dB @ 1600 MHz	CFL4111713182453K		
					35 dB @ 3200 MHz			
					25 dB @ 4800-5000 MHz			
2.5x2.0x1.1	2.45 GHz	2400-2500	1.5 dB	0.6 dB	30 dB @ 7200-7500 MHz	CFL4111713052453K		
					40 dB @ 880-960 MHz			
					30 dB @ 1710-1785 MHz			
2.5x2.0x1.2	2.45 GHz	2400-2500	2.5 dB	0.6 dB	20 dB @ 1850-1910 MHz	CFL4111713052453K		
					30 dB @ 4800-5000 MHz			
					20 dB @ 7200-7500 MHz			
2.5x2.0x1.2	2.45 GHz	2400-2500	2.5 dB	0.6 dB	20 dB @ 880-960 MHz	CFL4111713072453K		
					20 dB @ 2700 MHz			
					25 dB @ 4800-5000 MHz			
2.5x2.0x1.2	2.45 GHz	2400-2500	2.5 dB	0.6 dB	25 dB @ 7200-7500 MHz	CFL4111713072453K		
					25 dB @ 7200-7500 MHz			
					25 dB @ 7200-7500 MHz			

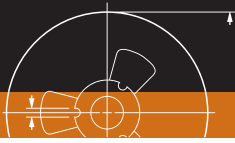
Note: " * " marks that the value depends on the Yageo demoboard

Low Pass Filter								
Dimensions (mm)	Frequency range*	Pass Band (MHz)	Impedance	Insertion loss	Ripple	VSWR*	Attenuation (Min.)	Packing (Tape)
1.6x0.8x0.65	2.45 GHz	2400-2500	50 ohm	0.45 dB	0.6 dB	< 1.5	25 dB @ 5000 MHz	CFL4111715502454K
							18 dB @ 7500 MHz	
2.0x1.25x0.85	2.45 GHz	2400-2500		0.5 dB	0.6 dB	< 1.8	27 dB @ 5000 MHz	CFL4111714502454K
							25 dB @ 7500 MHz	
							25 dB @ 10,000 MHz	
2.0x1.25x0.85	2.45 GHz	2400-2500		0.5 dB	0.6 dB	< 1.8	35 dB @ 6800 MHz	CFL4111714502454K
			35 dB @ 6800 MHz					



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HF Product Selection Charts

Balun and Combo

Balun									
Dimensions (mm)	Frequency range*	Pass band (MHz)	Impedance	Insertion loss	Ripple	VSWR*	Amplitude balance	Phase differential	Packing (Tape)
1.6x0.8x0.65	5 GHz	4900-5950	50/100 ohm	< 1.2 dB	0.6 dB	2.0	1.5 dB	180°±10°	CBA4711715015004K
2.0x1.25x0.80	2.45 GHz	2400-2500	50/50 ohm	< 1.0 dB	0.6 dB		2.0 dB		CBA4711714002454K
			50/100 ohm				CBA4711714012454K		
			50/200 ohm				CBA4711714022454K		
2.0x1.25x0.80	5 GHz	4900-5900	50/100 ohm	< 1.2 dB	0.6 dB	2.0 dB	CBA4711714015004K		

Note: " * " marks that the value depends on the Yageo demoboard

Bluetooth balanced filter (Filter & Balun combo)									
Dimensions (mm)	Frequency range*	Pass band (MHz)	Unbalanced impedance	Balanced impedance	Insertion loss	Amplitude balance	Phase differential	Attenuation (MHz/Min.)	Packing (Tape)
2.0x1.2x0.9	2.45 GHz	2400-2500	50 ohm	Conjugate match to CSR BC03/04/05 series	< 3.5 dB	< 1.0 dB	180°±10°	40 dB @ 880-960	CBA4711714982454K
								25 dB @ 1300-1600	
								35 dB @ 4800-5000	
								30 dB @ 7200-7500	
								40 dB @ 880-960	CBA4711714772454K
								20 dB @ 1300-1600	
								35 dB @ 4800-5000	
								25 dB @ 7200-7500	
								40 dB @ 880-960	CBA4711714882454K
								25 dB @ 1300-1600	
								35 dB @ 4800-5000	
								30 dB @ 7200-7500	
								40 dB @ 880-960	CBA4711714672454K
								25 dB @ 1300-1600	
								30 dB @ 4800-5000	
								25 dB @ 7200-7500	
40 dB @ 880-960	CBA4711814572454K								
25 dB @ 1300-1600									
35 dB @ 4800-5000									
25 dB @ 7200-7500									
2.5x2.0x1.2	2.45 GHz	2400-2500	50 ohm	Conjugate match to CSR BC02/03 series	< 3.5 dB			48 dB @ 880-960	CBA4711713932453K
								48 dB @ 1710-1880	
								40 dB @ 1880-1990	
								20 dB @ 2110-2170	
								20 dB @ 4800-5000	
20 dB @ 7200-7500									



Diplexer						
Dimensions (mm)	Frequency range	Pass band (MHz)	Insertion loss	VSWR	Attenuation (Min.)	Packing (Tape)
2.0x1.25x0.75	2.4 / 5 GHz	2400-2500	< 0.7 dB	< 2.0	17 dB @ 4800-6000 MHz	CFL4111714822504K
		4900-5900	< 1.6 dB		20 dB @ 7200-7500 MHz	
17 dB @ 1800-2500 MHz						
2400-2500		< 0.65 dB	20 dB @ 10300-10700 MHz (Ref.)			
			20 dB @ 4800-6000 MHz			
2.0x1.25x0.85		4900-5900	< 1.1 dB		20 dB @ 7200-7500 MHz	CFL4111714832504K
					15 dB @ 1800-2400 MHz	
2.0x1.25x0.85		2400-2500	< 0.7 dB		20 dB @ 2400-2500 MHz	
					20 dB @ 4900-5900 MHz	
		4900-5900	< 0.9 dB		20 dB @ 2400-2500 MHz	CFL4111714852504K
	20 dB @ 4900-5900 MHz					
2.0x1.25x0.85	2400-2500	< 0.6 dB	20 dB @ 4900-5900 MHz	CFL4111714862504K		
			25 dB @ 2400-2500 MHz			
2.0x1.25x0.9	4900-5900	< 0.9 dB	20 dB @ 4800-6000 MHz			
			20 dB @ 7200-7500 MHz			
	2400-2500	< 0.5 dB	25 dB @ 1800-2500 MHz	CFL4111714882504K		
			25 dB @ 9800-11800 MHz (Ref.)			