EN - For pricing and availability in your local country please visit one of the below links:

DE - Informationen zu Preisen und Verfügbarkeit in Ihrem Land erhalten Sie über die unten aufgeführten Links:

FR - Pour connaître les tarifs et la disponibilité dans votre pays, cliquez sur l'un des liens suivants:

CAN4311129200431K

EN
This Datasheet is presented by the manufacturer

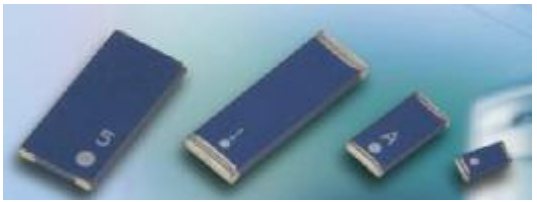
DE
Dieses Datenblatt wird vom Hersteller bereitgestellt

FR
Cette fiche technique est présentée par le fabricant

2.1 Ceramic Chip Antenna

Features

1. Embed antenna
2. Miniature
3. Surface mount device
4. Design pattern inside
5. Omni directional radiation
6. Non-ground surrounding antenna
7. Multi types for tuning



			CAN4311712022453K	
			CAN4311712032453K	
			CAN4311712042453K	
		3.2x1.6x1.2	CAN4311712052453K	9 Types
			CAN4311712062453K	
			CAN4311712072453K	
			CAN4311712082453K	
			CAN4311712092453K	
		2.0x1.2x1.1	CAN4311714002454K	1 Type
GPS (linear polarization)	1.575 GHz	6.15x3.0x1.45	CAN4311113011582K	3 Types
			CAN4311113021582K	
			CAN4311113031582K	

GPS (Circular polarization)	1.575 GHz	15*15*4.0	CAN4313423011581B	SMD Type
		15*15*4.0	CAN4313423031581B	PIN Type
		15*15*4.0	CAN4313423041581B	PIN Type
		18*18*4.0	CAN4313424061581B	SMD Type
		18*18*4.0	CAN4313424161581B	SMD Type
		18*18*2.0	CAN4313424021581B	PIN Type
		18*18*4.0	CAN4313424031581B	PIN Type
		18*18*4.0	CAN4313424041581B	PIN Type
		18*18*2.0	CAN4313424051581B	PIN Type
		25*25*2.0	CAN4313425021581B	PIN Type
		25*25*4.0	CAN4313425031581B	PIN Type

Active GPS (Circular polarization)	1.575 GHz	35*28*7.0	CAN4313438981581B
		13*13*7.0	CAN4313434901581B
		13*13*5.5	CAN4313434881581B
		16*16*7.0	CAN4313435941581B
		16*16*7.0	CAN4313435921581B
		19*19*7.0	CAN4313437931581B
		19*19*5.0	CAN4313437951581B
		21*15*7.0	CAN4313435911581B
		21*15*7.0	CAN4313435951581B

Application	Freq.	L (mm)	L/4 (mm)
GSM/PCS	900	333	83
GPS	1575	190	48
UMTS / CDMA	2100	143	36
WLAN(11a/b/g) / BT	2400	125	31
UWB	3100	97	24
WiMax 23	2300	130	33
WLAN (11a)	4900	61	15

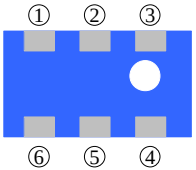
CFL4111713022453K
CFL4111713032453K
CFL4111713052453K
CFL4111713072453K
CFL4111713182453K
CFL4111714032454K
CFL4111714052454K

CFL4111714015004K
CFL4111714035004K
CFL4111714055004K

CFL4111714062454K
CFL4111714182454K

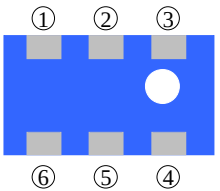
P.S Marker shape depend on data sheet

CFL4111714852304K	4900-5900	0.9	20dB @2.4-2.5GHz	2.0	1.25	0.85	Murata LFD212G45DP3A151



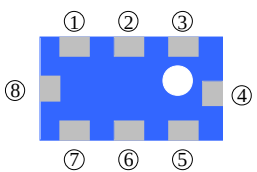
1 GND
2 Common Port
3 GND
4 Low Band Port
5 GND
6 High Band Port

CFL4111714802454K



1 High Band Port
2 GND
3 Low Band Port
4 GND
5 Common Port
6 GND

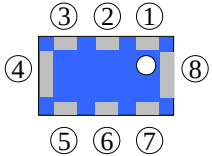
CFL4111714822454K



1 GND
2 Common Port
3 GND
4 Low Band Port
5 GND
6 GND
7 GND
8 High Band Port

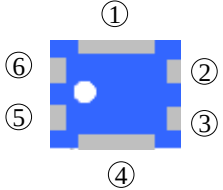
CFL4111714852454K

P.S Marker shape depend on data sheet



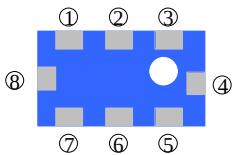
1:NC
2:Unbalanced Port
3:NC
4:GND
5:Balanced Port
6:NC
7:Balanced Port
8:GND

CBA4711713912453K



1 GND
2 Balanced Port
3 Balanced Port
4 GND
5 GND / DC
6 Unbal Port

CBA4711713932453K



1 GND
2 Common Port
3 GND
4 Low Band Port
5 GND
6 GND
7 GND
8 High Band Port

CBA4711714672454K

CBA4711714982454K

T. Type

00 = Type 00

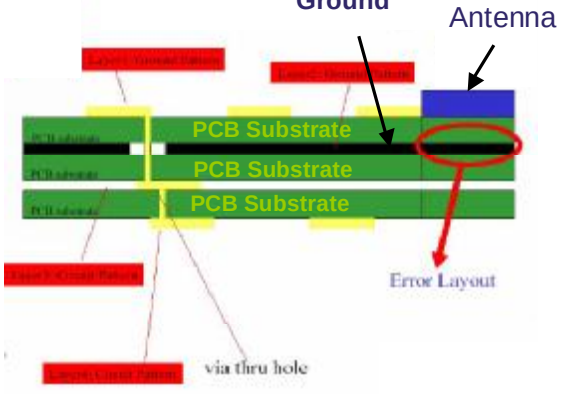
A. Working Frequency

245 = 2.45 GHz

P. Packing Type Code

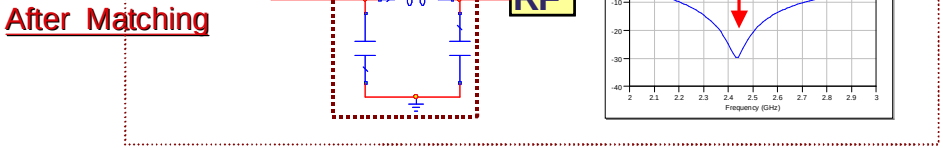
3K = 3000pcs taping

	Card -PCI Express	V	V		V	V
	Card -Cardbus	V	V		V	V

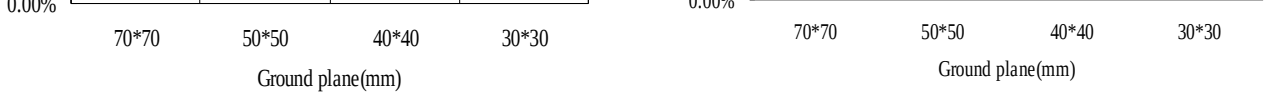


Ground layer

No ground layer is beneath antenna.



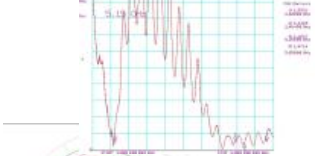
Matching circuit

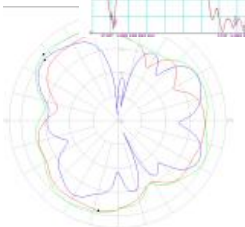


Efficiency vs. ground plane

Not only center frequency but also efficiency will be affected. And generally bigger ground plane have better performance. However, small product that don't have large ground plane is the trend for current consumer product.

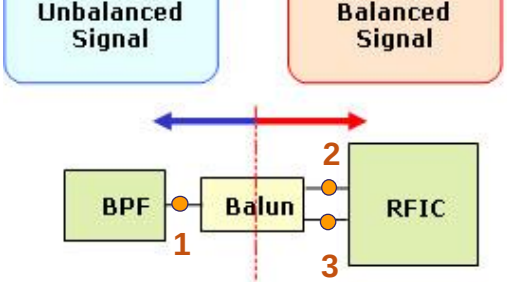
Provide Test Report with S11, VSWR, Gain





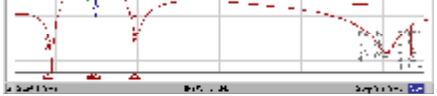
Provide design sample

Yageo keep design sample, and create p/n for customer



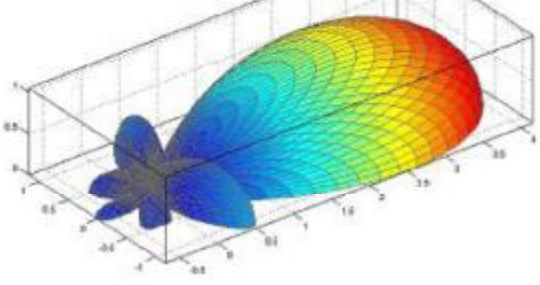
Balun between BPF and RFIC

- High rejection at lower frequency

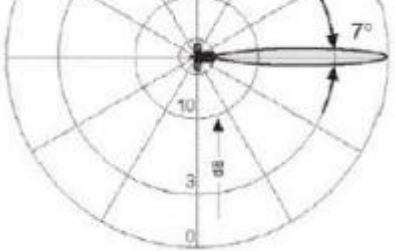


2.4/5	2012	DIPLEXER 80	CFL4111 714 80 2504K	RFDIP2012100L0T	DP2012-B2455BA_ DP2012-E2455BB_		
		DIPLEXER 82	CFL4111 714 82 2504K	RFDIP2012100L2T	DP2012-E2455DA_	LTD-2012-2G4S1-A1	
		DIPLEXER 85	CFL4111 714 85 2504K	RFDIP2012100L1T	DP2012-B2455AA_	LTD-2012-2G4S1-A3	

5	2012	BPF 01T	CFL4111 714 01 5004K		LFB215g37SG8A180	DEA205425BT-1209B2	
		BPF 03T	CFL4111 714 03 5004K		LFB215g37SG8A185		LCB21M5425A1 LCB21M5425B1
		BPF 05T	CFL4111 714 05 5004K	HMD861H			
		BALUN50/100	CBA4711 714 01 5004K		LDB215G3710C001 LDB215G5110C001	HHM1562B	
2.4/5	2012	DIPLEXER 80	CFL4111 714 80 2504K	HMD 880J HMD 888J			DX21THWC01
		DIPLEXER 82	CFL4111 714 82 2504K	HMD 881j		DPX205950DT-9108A1	DX21TFWC12
		DIPLEXER 85	CFL4111 714 85 2504K		LFD212G45DP3A151 LFD212G45DP3A188		
		DIPLEXER 86	CFL4111 714 86 2504K		LFD212G45DP3A189		
		DIPLEXER 88	CFL4111 714 88 2504K	HMD 888J		DPX205950DT-9008A1	



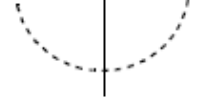
3D radiation pattern



2D radiation pattern

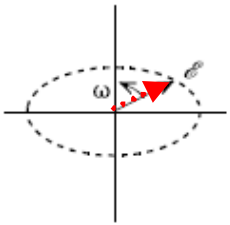
Vertical linear

Horizontal linear

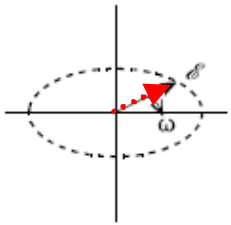


Right-hand circular

Left-hand circular

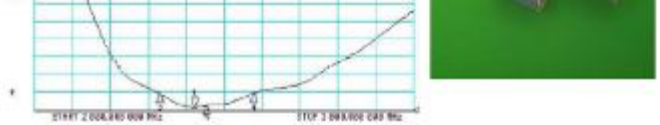


Right-hand elliptical



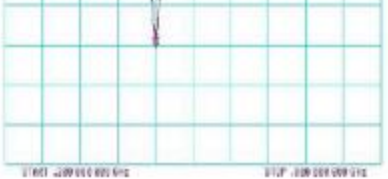
Left-hand elliptical

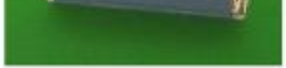
3216/2.45GHz WLAN/Bluetooth Ceramic Antenna (type 2)	**CAN4311712022453K**	**L:3.2 ; W:1.6 ; T:1.2mm**
3216/2.45GHz WLAN/Bluetooth Ceramic Antenna (type 3)	**CAN4311712032453K**	**L:3.2 ; W:1.6 ; T:1.2mm**
3216/2.45GHz WLAN/Bluetooth Ceramic Antenna (type 4)	**CAN4311712042453K**	**L:3.2 ; W:1.6 ; T:1.2mm**



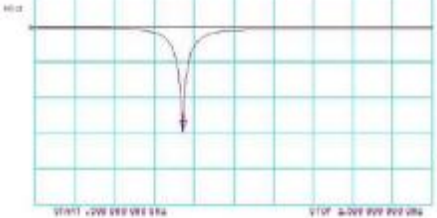
Description	Value
Centre Frequency	2.45 GHz
Bandwidth	at least 200 MHz
VSWR	2 (Max.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	4 dBi
Impedance	50Ω
Operating Temperature	-25~85 oC
Termination	Ni / Sn
Resistance to soldering heats	260℃, 10sec.
Dimension	5.3 x 2.0 x 1.25 mm

Description	Value
Centre frequency (for different central frequency shifts)	2.45 GHz 02 type/03 type/Default/06 type/07 type
Bandwidth	> 100 MHz
Gain	4.1 dBi max. (depends on the specia environment)
VSWR	2.5 max. (depends on the specia environment)
Polarization	Linear
Azimuth beamwidth	Omni-directional
Impedance	50 W
Power dissipation	1 W
Operating temperature	-25 to +85 °C
Terminations	Ni/Sn
Resistance to soldering heat	260 °C for 10 seconds





Description	Value
Centre Frequency	400 - 500 MHz
Bandwidth	at least 20 MHz
VSWR	3.0 (Max.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	0.5 dBi
Impedance	50Ω
Operating Temperature	-25~85 oC
Termination	Ni / Sn
Resistance to soldering heats	260℃, 10sec.
Dimension	12.0 x 4.0 x 1.5 mm



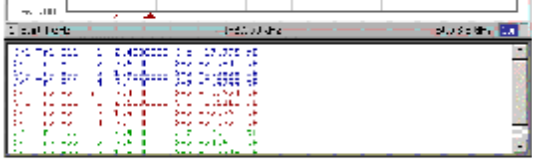
Description	Value
Centre Frequency	800-900 MHz
Bandwidth	at least 20 MHz
VSWR	2.0 Max
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	0.5 dBi Max
Impedance	50Ω
Operating Temperature	-40~125℃
Termination	Ni/Sn
Resistance to soldering heats	260℃,10sec
Dimension	4.0 x 12.0 x 1.6

Description	Value
Centre Frequency	1.575 GHz
Bandwidth	10MHz
VSWR	2.5 (Max.)
Polarization	Right Hand Circular Polarization
Peak Gain	2.5 dBi
Impedence	50Ω
Operating Temperature	-25~85 oC
Resistance to soldering heats	260℃, 10sec.
Dimension	18.0 x 18.0 x 4.0 mm

Description	Value
Centre Frequency	1.575 GHz
Bandwidth	20MHz
VSWR	2.5 (Max.)
Polarization	Right Hand Circular Polarization
Peak Gain	5 dBi
Impedance	50Ω
Operating Temperature	-25~85 oC
Resistance to soldering heats	260℃, 10sec.
Dimension	25.0 x 25.0 x 4.0, 2.0 mm

Description	Value
Frequency Range	3000-4000 MHz
Impedance	50 ohm
Insertion Loss	0.5dB (Max) at 25 °C
V.S.W.R.	2 (Max)
Attenuation	35dB Min @ 6.8GHz
	30dB Min @ 11GHz (ref)
Dimension	2.0 x 1.25 x0.85 mm

Description	Value
Frequency Range	5150~5850 MHz
Impedance	50 ohm
Insertion Loss	1.8dB (Max) at 25°C
V.S.W.R.	2.0 (Max)
Ripple	0.5dB (Max)
Attenuation	30dB Min@2400~2500MHz
	20dBMin@ 4700MHz
Dimension	2.0 x 1.25 x 0.9 mm



Description	Value
Frequency Range	2400-2500 MHz
Impedance	50 Ohm
Insertion Loss	2.0 dB (Max) at25°C
	2.3 dB (Max) at -40~85°C
V.S.W.R.	2.0 (Max)
Ripple	0.50 dB
Attenuation	30 dB Min @ 880~960MHz 30dB Min @1710~1910MHz
	15 dB Min @ 2100 MHz
	25 dB Min @ 4800~5000MHz
	30 dB Min @ 7200~7500MHz
Operating Temperature	-40~+85 °C
Dimension	2.0 x 1.25 x 0.85 mm

Description	Value
Frequency Range	2400-2500 MHz
Insertion Loss	2.0dB (Max) 1.8dB (Typ) at 25°C
	2.3dB dB(Max) at –40~ 85 °C
V.S.W.R.	2.0 (Max)
Ripple	0.50dB
Attenuation	24dB Min @ 3200MHz
	30dB Min @ 4800~5000MHz
	20dB Min @ 7200~7500MHz
Operating Temp.	-40 ~ +85 °C
Dimension	2.0 x 1.25 x 0.9 mm

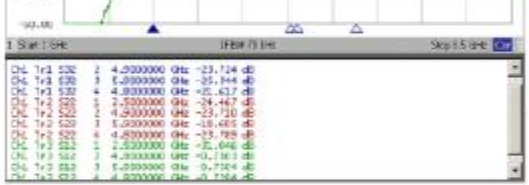
Description	Value
Frequency Range	2400-2500 MHz
Insertion Loss	2.5dB (Max) at 25°C
	2.8dB dB(Max) at –40~ 85 °C
V.S.W.R	2.0 (Max)
Rippie	0.50dB
Attenuation	30dB Min @1600MHz
	30dB Min @3200MHz
	20dB Min @ 4800MHz
	25dB Min @ 7200MHz
Operating Temp.	-40 ~ +85 °C
Dimension	2.0 x 1.25 x 0.9 mm

Description	Value
Frequency Range	2400-2500 MHz
Impedance	50 Ohm
Insertion Loss	2.8dB (Max) at 25℃
	3.0dB (Max) at -40~85℃
V.S.W.R	2.0 Max
Ripple	0.50dB
Attenuation	40dB Min @ 1600 MHz
	38dB Min @ 3200 MHz
	20dB Min @ 4800 MHz
	25dB Min @ 7200 MHz
Operating Temp.	-40~+85℃
Dimension	2.1 x 1.25 x 0.9 mm

Description	Value
Frequency Range	5150~5850 MHz
Impedance	50 Ohm
Insertion Loss	1.8 dB (Max) at 25℃
	2.1 dB (Max) at -40~85℃
V.S.W.R	2.0 Max
Ripple	0.50 dB
Attenuation	30 dB Min @ 2400~2500 MHz
	25 dB Min @ 4700 MHz
Operating Temp.	-40~+85℃
Dimension	2.0 x 1.25 x 0.9 mm

Description	Value
Frequency Range	2400-2500 MHz
Impedance	50 ohm
Return Loss	10 dB(Min.)
Insertion Loss	1.5dB (Max.), 1.3dB (Typ)at 25 °C
	1.8 dB(max) at-40 ~ +85 °C
V.S.W.R.	2.0 (Max.)
Ripple	0.6 dB (max)
Attenuation	40dB Min @ 880~960MHz
	30dB Min @ 1710~1785MHz
	30dB Min @ 1850~1910MHz
	20dB Min @ 4800~5000MHz
	30dB Min @ 7200~7500MHz
Dimension	2.5 x 2.0 x 0.95 mm

Description	Value
Frequency Range	2400-2500 MHz
Impedance	50 ohm
Return Loss	10 dB(Min.)
Insertion Loss	2.2 dB (Max.), 2.0dB (Typ)
V.S.W.R.	2.0 (Max.)
Attenuation	30dB Min @ 1600MHz
	35dB Min @ 3200MHz
	25dB Min @ 4800~5000MHz
	30dB Min @ 7200~7500MHz
Dimension	2.5 x 2.0 x 0.95 mm

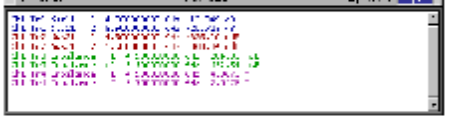


Description	Value	
Frequency Range	2400~2500 MHz	4900~5900 MHz
Insertion Loss	0.5dB (Max)	0.9dB (Max)
V.S.W.R.	2.0 (Max)	2.0(Max)
Attenuation	20.0dB min.@4800~6000MHz	25 dB min.@1800~2500MHz
	20.0dB min.@7200~7500MHz	25 dB min.@9800~11800MHz
Operating Temperature	-40 ~ +85 °C	
Dimension	2.0 x 1.25 x 0.9mm	

Description	Value
Frequency Range	2400-2500 MHz
Unbalanced Imp.	50 Ohm
Balanced Imp.	Conjugate match to CSR BC03/04
Insertion Loss	3.5 dB (Max) at 25 Deg. C
	3.8 dB (Max) at -40 ~ +85 Deg. C
Unbalanced port V.S.W.R.	2.0 (Max)
Ripple	1.0 dB (Max)
Amplitude Bal.	1.0 dB (Max)
Phase Differential	180 ± 5 degree
Attenuation	40 dB (Min) @ 880~ 960MHz
	25 dB (Min) @1300~1600MHz
	35 dB (Min) @4800~5000Hz
	30 dB (Min) @7200~7500MHz
Dimension : Color	2.0 x 1.25 x 0.9 mm , White

Description	Value
Frequency Range	2400-2500 MHz
Unbalanced Imp.	50 Ohm
Balanced Imp.	Conjugate match to CSR BC03/04
Insertion Loss	3.5 dB (Max) at 25 Deg. C
	3.8 dB (Max) at -40 ~ +85 Deg. C
Unbalanced port V.S.W.R.	2.0 (Max)
Ripple	1.0 dB (Max)
Amplitude Bal.	1.0 dB (Max)
Phase Differential	180 ± 5 degree
Attenuation	40 dB (Min) @ 880~ 960MHz
	25 dB (Min) @ 1300~1600MHz
	35 dB (Min) @ 4800~5000Hz
	30 dB (Min) @ 7200~7500MHz
Dimension	2.0 x 1.25 x 0.9 mm

Description	Value
Frequency Range	3100~4800 MHz
Unbalanced Impedance	50 Ohm
Balanced Impedance	100 Ohm
Unbalanced port V.S.W.R (Return Loss)	2.0 (Max) 10 dB (Min)
Insertion Loss	1.2 dB (Max.)at 25℃ 1.5 dB (Max) at -40~+85℃
Phase Difference	180 ± 10 degree
Amplitude Difference	1.5 dB (Max)
Dimension	2.0 x 1.25 x 0.95 mm



Description	Value
Frequency Range	4900-5800 MHz
Unbalanced Impedance	50 Ohm
Balanced Impedance	100 Ohm
Insertion Loss	1.2 dB (Max) at 25 Deg. C 1.4 dB (Max) at -40 ~ +85 Deg. C
Return Loss	10dB (Min)
Unbalanced port V.S.W.R	2.0 (Max)
Ripple	0.6dB
Phase Difference	180 ±10 degree
Amplitude Difference	2.0 dB (Max)
Dimension	2.0 x 1.25 x 0.11 mm

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