



element14

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



Innovative Service Around the Globe **YAGEO**

5. High Frequency Cross References

6. Appendix 1: Antenna Characteristic

7. Appendix 2: Designer Sample Kit

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



		3.2x1.6x1.2	CAN4311712022453K	9 Types
			CAN4311712032453K	
			CAN4311712042453K	
			CAN4311712052453K	
			CAN4311712062453K	
			CAN4311712072453K	
			CAN4311712082453K	
			CAN4311712092453K	
		2.0x1.2x1.1	CAN4311714002454K	
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

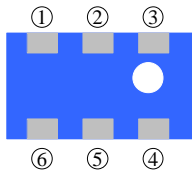
Application	Freq.	L (mm)	L/4 (mm)
GSM/PCS	900	333	83
GPS	1575	190	48
UMTS / CDMA	2100	143	36
WLAN(11a/b/g) / BT	2400	125	31
UWB	3100	97	24
WiMax 23	2300	130	33
WLAN (11a)	4900	61	15



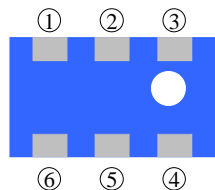
CFL4111713022453K CFL4111714015004K
 CFL4111713032453K CFL4111714035004K
 CFL4111713052453K CFL4111714055004K
 CFL4111713072453K
 CFL4111713182453K
 CFL4111714032454K
 CFL4111714052454K

CFL4111714062454K
 CFL4111714182454K

P.S Marker shape depend on data sheet

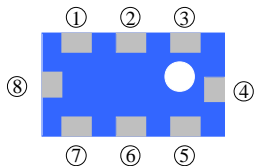


- 1 GND
- 2 Common Port
- 3 GND
- 4 Low Band Port
- 5 GND
- 6 High Band Port



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

CFL4111714802454K

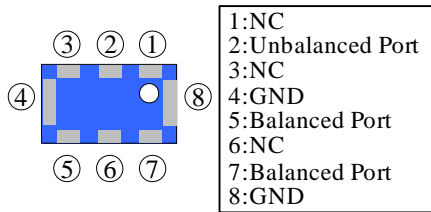


- 1 GND
- 2 Common Port
- 3 GND
- 4 Low Band Port
- 5 GND
- 6 GND
- 7 GND
- 8 High Band Port

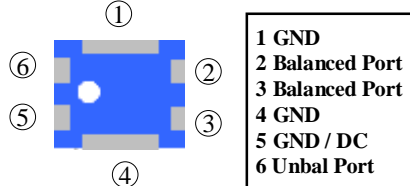
CFL4111714852454K

CFL4111714822454K

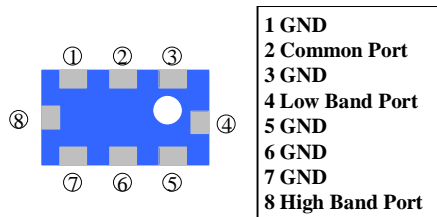
P.S Marker shape depend on data sheet



CBA4711713912453K



CBA4711713932453K



CBA4711714672454K

CBA4711714982454K

I. Type

00 = Type 00

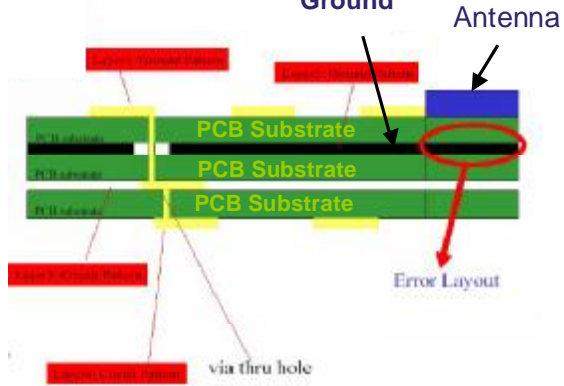
A. Working Frequency

245 = 2.45 GHz

P. Packing Type Code

3K = 3000pcs taping

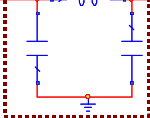
Card - FireWire	✓	✓		✓	✓
Card - PCI Express	✓	✓		✓	✓
Card - Cardbus	✓	✓		✓	✓



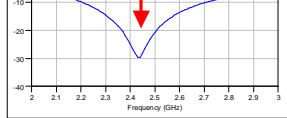
Ground layer

No ground layer is beneath antenna.

After Matching



11



Matching circuit

0.00%

70*70

50*50

40*40

30*30

Ground plane (mm)

0.00%

70*70

50*50

40*40

30*30

Ground plane (mm)

Efficiency vs. ground plane

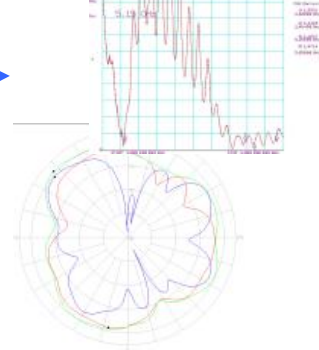
Not only center frequency but also efficiency will be affected. And generally bigger ground plane have better performance. However, small product that don't have large ground plane is the trend for current consumer product.

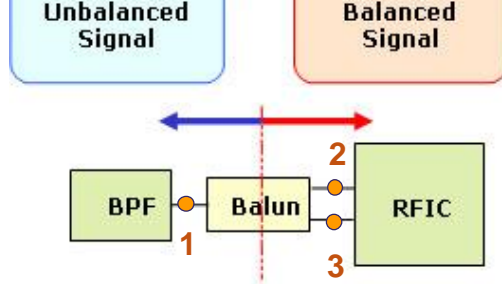


Provide Test Report with
S11, VSWR, Gain

Provide design sample

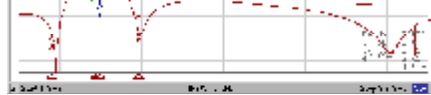
Yageo keep design sample,
and create p/n for customer





Balun between BPF and RFIC

- High rejection at lower frequency

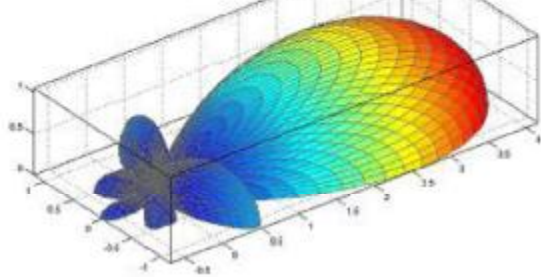


2.4/5	2012	DIPLEXER 80	CFL4111 714 80 2504K	RFDIP2012100L0T	DP2012-B2455BA_ DP2012-E2455BB_	
		DIPLEXER 82	CFL4111 714 82 2504K	RFDIP2012100L2T	DP2012-E2455DA_	LTD-2012-2G4S1-A1
		DIPLEXER 85	CFL4111 714 85 2504K	RFDIP2012100L1T	DP2012-B2455AA_	LTD-2012-2G4S1-A3

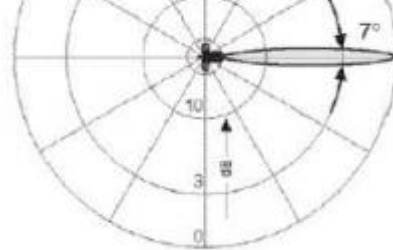
5	2012	BPF 01T	CFL4111 714 01 5004K		LFB215g37SG8A180	DEA205425BT-1209B2		
		BPF 03T	CFL4111 714 03 5004K		LFB215g37SG8A185		LCB21M5425A1 LCB21M5425B1	
		BPF 05T	CFL4111 714 05 5004K	HMD861H				
		BALUN50/100	CBA4711 714 01 5004K		LDB215G3710C001 LDB215G5110C001	HHM1562B		
2.4/5	2012	DIPLEXER 80	CFL4111 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	

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3D radiation pattern



2D radiation pattern



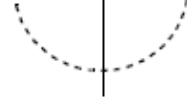
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Vertical linear



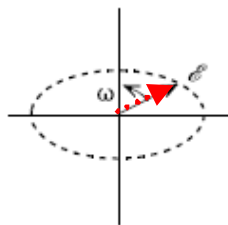
Horizontal linear



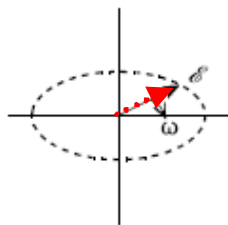
Right-hand circular



Left-hand circular



Right-hand elliptical

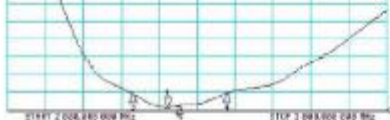


Left-hand elliptical

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



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Marker data:

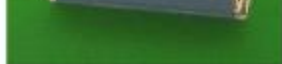
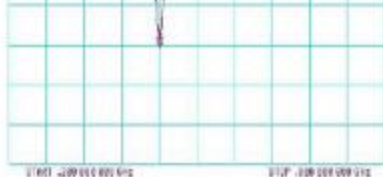
1: $f = -10$ dB, $f = 2.35$ GHz

2: $f = -10$ dB, $f = 2.55$ GHz

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 °C
Termination	Ni / Sn
Resistance to soldering heats	260°C, 10sec.
Dimension	5.3 x 2.0 x 1.25 mm

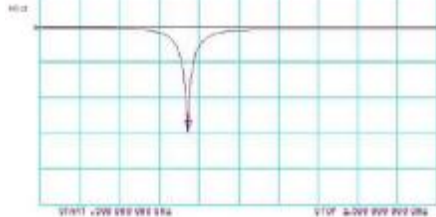
Description	Value
Centre frequency (for different central frequency shifts)	2.45 GHz 02 type/03 type/Default/06 type/07 type
Bandwidth	> 100 MHz
Gain	4.1 dB max. (depends on the special environment)
VSWR	2.5 max. (depends on the special environment)
Polarization	Linear
Azimuth beamwidth	Omni-directional
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

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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

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Description	Value
Centre Frequency	800-900 MHz
Bandwidth	at least 20 MHz
VSWR	2.0 Max
Polarization	Linear
Azimuth Beamwidth	Omnidirectional
Peak Gain	0.5 dBi Max
Impedance	50 Ω
Operating Temperature	-40~125 $^{\circ}$ C
Termination	Ni/Su
Resistance to soldering heats	260 $^{\circ}$ C, 10sec
Dimension	4.0 x 12.0 x 1.6

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

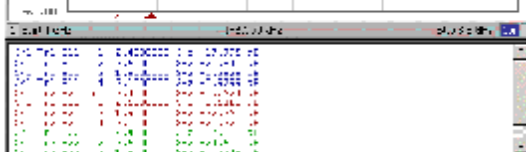
Description	Value
Centre Frequency	1.575 GHz
Bandwidth	20MHz
VSWR	2.5 (Max.)
Polarization	Right Hand Circular Polarization
Peak Gain	5 dBi
Impedance	50Ω
Operating Temperature	-25~85 oC
Resistance to soldering heats	260℃, 10sec.
Dimension	25.0 x 25.0 x 4.0; 2.0 mm

Ch1 Tr1 S11	1	4.20000000 GHz	-248.71 dB
Ch1 Tr1 S12	1	4.10000000 GHz	-252.30 dB
Ch1 Tr1 S13	1	4.20000000 GHz	-218.19 dB
Ch1 Tr1 S14	1	4.20000000 GHz	-462.31 dB
Ch1 Tr1 S15	1	4.20000000 GHz	-252.30 dB
Ch1 Tr1 S16	1	4.20000000 GHz	-252.30 dB
Ch1 Tr1 S17	1	4.20000000 GHz	-462.31 dB
Ch1 Tr1 S18	1	4.20000000 GHz	-252.30 dB
Ch1 Tr1 S19	1	4.20000000 GHz	-252.30 dB
Ch1 Tr1 S20	1	4.20000000 GHz	-462.31 dB

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

Ch1 Tr1 S11	1	5.10000000 GHz	-18.711 dB
Ch1 Tr1 S12	1	5.85000000 GHz	-25.284 dB
Ch1 Tr1 S13	1	4.70000000 GHz	-1.4738 dB
Ch1 Tr1 S14	1	5.10000000 GHz	-1.7444 dB
Ch1 Tr1 S15	1	5.85000000 GHz	-0.4737 dB
Ch1 Tr1 S16	1	4.70000000 GHz	-27.588 dB
Ch1 Tr1 S17	1	5.10000000 GHz	-1.7444 dB
Ch1 Tr1 S18	1	5.85000000 GHz	-25.284 dB
Ch1 Tr1 S19	1	4.70000000 GHz	-1.4737 dB
Ch1 Tr1 S20	1	4.70000000 GHz	-1.7444 dB

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
	20dB Min@ 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) at 25 °C
	2.3 dB (Max) at -40~85 °C
V.S.W.R	2.0 (Max)
Ripple	0.50 dB
Attenuation	30 dB Min @ 300-900MHz
	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

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Frequency (MHz)	Attenuation (dB)
1600	30.0
1700	30.0
1800	30.0
1900	30.0
2000	30.0
2100	30.0
2200	30.0
2300	30.0
2400	30.0
2500	30.0

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)
Ripple	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

Frequency (MHz)	Attenuation (dB)
1600	40.0
1700	38.0
1800	38.0
1900	38.0
2000	38.0
2100	38.0
2200	38.0
2300	38.0
2400	38.0
2500	38.0

Description	Value
Frequency Range	2400-2500 MHz
Impedance	50 Ohm
Insertion Loss	2.8dB (Max) at 25°C
	3.0dB (Max) at -40~85°C
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 °C
Dimension	2.1 x 1.25 x 0.9 mm

Port	Frequency (MHz)	Attenuation (dB)
CH1 Fx1 S11	1	5.15070000
CH1 Fx1 S12	2	5.85070000
CH1 Fx1 S21	3	4.70070000
CH1 Fx2 S22	1	5.11000000
CH1 Fx2 S21	2	5.85070000
CH1 Fx2 S21	3	4.70070000
CH1 Fx3 S21	1	5.11000000
CH1 Fx3 S21	2	5.85070000
CH1 Fx3 S21	3	4.70070000

Port	Frequency (MHz)	Attenuation (dB)
CH1 Fx1 S11	1	2.40000000
CH1 Fx1 S12	2	2.50000000
CH1 Fx1 S21	3	3.50000000
CH1 Fx1 S21	1	-0.00000000
CH1 Fx1 S21	2	2.50000000
CH1 Fx1 S21	3	2.50000000
CH1 Fx1 S21	4	4.00000000
CH1 Fx1 S21	5	2.50000000
CH1 Fx1 S21	6	2.40000000

Description	Value
Frequency Range	5150~5850 MHz
Impedance	50 Ohm
Insertion Loss	1.8 dB (Max) at 25°C
	2.1 dB (Max) at -40~+85°C
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°C
Dimension	2.0 x 1.25 x 0.9 mm

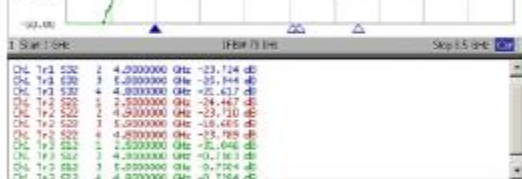
Description	Value
Frequency Range	2400-2500 MHz
Impedance	50 ohm
Return Loss	10 dB (Min.)
Insertion Loss	1.5dB (Max.), 1.3dB (Typ) at 25 °C
	1.8 dB(max) at -40 ~ +85 °C
V.S.W.R	2.0 (Max.)
Ripple	0.6 dB (max)
Attenuation	40dB Min @ 800~960MHz
	30dB Min @ 1710~1785MHz
	30dB Min @ 1850~1910MHz
	20dB Min @ 4800~5000MHz
	30dB Min @ 7200~7500MHz
Dimension	2.5 x 2.0 x 0.95 mm

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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

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Description	Value	
Frequency Range	2400~2500 MHz	4900~5000 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	

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Port	Order	Value	Unit
1	1	1.000000	dB
1	2	1.000000	dB
1	3	1.000000	dB
1	4	1.000000	dB
1	5	1.000000	dB
1	6	1.000000	dB
1	7	1.000000	dB
1	8	1.000000	dB
1	9	1.000000	dB
1	10	1.000000	dB
1	11	1.000000	dB
1	12	1.000000	dB
1	13	1.000000	dB
1	14	1.000000	dB
1	15	1.000000	dB
1	16	1.000000	dB
1	17	1.000000	dB
1	18	1.000000	dB
1	19	1.000000	dB
1	20	1.000000	dB
1	21	1.000000	dB
1	22	1.000000	dB
1	23	1.000000	dB
1	24	1.000000	dB
1	25	1.000000	dB
1	26	1.000000	dB
1	27	1.000000	dB
1	28	1.000000	dB
1	29	1.000000	dB
1	30	1.000000	dB
1	31	1.000000	dB
1	32	1.000000	dB
1	33	1.000000	dB
1	34	1.000000	dB
1	35	1.000000	dB
1	36	1.000000	dB
1	37	1.000000	dB
1	38	1.000000	dB
1	39	1.000000	dB
1	40	1.000000	dB
1	41	1.000000	dB
1	42	1.000000	dB
1	43	1.000000	dB
1	44	1.000000	dB
1	45	1.000000	dB
1	46	1.000000	dB
1	47	1.000000	dB
1	48	1.000000	dB
1	49	1.000000	dB
1	50	1.000000	dB

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) @ 800- 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

Port	Order	Value	Unit
1	1	1.000000	dB
1	2	1.000000	dB
1	3	1.000000	dB
1	4	1.000000	dB
1	5	1.000000	dB
1	6	1.000000	dB
1	7	1.000000	dB
1	8	1.000000	dB
1	9	1.000000	dB
1	10	1.000000	dB
1	11	1.000000	dB
1	12	1.000000	dB
1	13	1.000000	dB
1	14	1.000000	dB
1	15	1.000000	dB
1	16	1.000000	dB
1	17	1.000000	dB
1	18	1.000000	dB
1	19	1.000000	dB
1	20	1.000000	dB
1	21	1.000000	dB
1	22	1.000000	dB
1	23	1.000000	dB
1	24	1.000000	dB
1	25	1.000000	dB
1	26	1.000000	dB
1	27	1.000000	dB
1	28	1.000000	dB
1	29	1.000000	dB
1	30	1.000000	dB
1	31	1.000000	dB
1	32	1.000000	dB
1	33	1.000000	dB
1	34	1.000000	dB
1	35	1.000000	dB
1	36	1.000000	dB
1	37	1.000000	dB
1	38	1.000000	dB
1	39	1.000000	dB
1	40	1.000000	dB
1	41	1.000000	dB
1	42	1.000000	dB
1	43	1.000000	dB
1	44	1.000000	dB
1	45	1.000000	dB
1	46	1.000000	dB
1	47	1.000000	dB
1	48	1.000000	dB
1	49	1.000000	dB
1	50	1.000000	dB

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) @ 800- 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

Port	Order	Frequency (MHz)	Value
04 Tr1 Sml3	1	3.400000000 GHz	-31.435 dB
04 Tr1 Sml2	2	3.800000000 GHz	-21.437 dB
04 Tr1 Sml2	>1	3.800000000 GHz	-71.149 dB
04 Tr1 Sml2	1	3.800000000 GHz	-8.79.58 dB
04 Tr1 Sml2	2	3.800000000 GHz	-21.625 dB
04 Tr1 Sml2	3	3.800000000 GHz	-34.120 dB
04 Tr1 Sml2 Loss	1	3.800000000 GHz	-899.12 dB
04 Tr1 Sml2 Loss	2	3.800000000 GHz	-197.19 dB
04 Tr1 Sml2 Loss	3	3.800000000 GHz	-9.3793 dB
04 Tr1 Sml2 Loss	4	3.800000000 GHz	-1.2848 dB

Port	Order	Frequency (MHz)	Value
04 Tr1 Sml2	1	3.400000000 GHz	-31.435 dB
04 Tr1 Sml2	2	3.800000000 GHz	-21.437 dB
04 Tr1 Sml2	>1	3.800000000 GHz	-71.149 dB
04 Tr1 Sml2	1	3.800000000 GHz	-8.79.58 dB
04 Tr1 Sml2	2	3.800000000 GHz	-21.625 dB
04 Tr1 Sml2	3	3.800000000 GHz	-34.120 dB
04 Tr1 Sml2 Loss	1	3.800000000 GHz	-899.12 dB
04 Tr1 Sml2 Loss	2	3.800000000 GHz	-197.19 dB
04 Tr1 Sml2 Loss	3	3.800000000 GHz	-9.3793 dB
04 Tr1 Sml2 Loss	4	3.800000000 GHz	-1.2848 dB

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°C
	1.5 dB (Max) at -40~+85°C
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	4900-6600 MHz
Unbalanced Impedance	50 Ohm
Balanced Impedance	100 Ohm
Insertion Loss	1.2 dB (Max) at 25 Deg. C
	1.4 dB (Max) at -10 ~ +85 Deg. C
Return Loss	10dB (Min)
Unbalanced port V S W R	2.0 (Max)
Reple	0.8dB
Phase Difference	180 ± 10 degree
Amplitude Difference	2.0 dB (Max)
Dimension	2.0 x 1.25 x 0.95 mm

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