

## Directional Coupler

### Features

- Miniature, thin (1.6 × 0.8 × t 0.55)
- Available in many frequency ranges within 700 MHz to 2500 MHz
- High isolation

### Recommended Applications

- Digital portable telephone
- Dual-mode Portable telephone
- PHS
- Mobile communication system

### Typical Characteristics

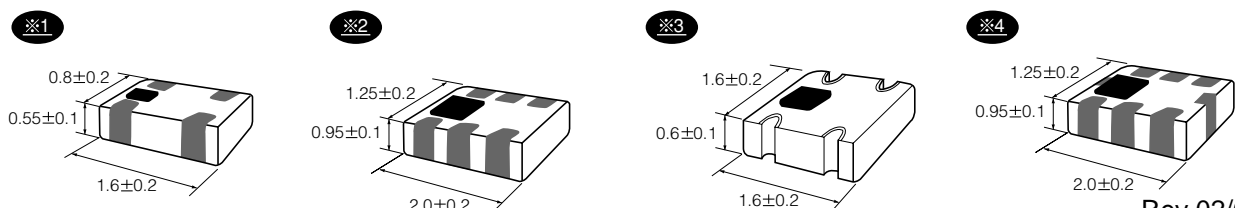
	Coupled Value (dB)										
	10	11	12	13	14	15	16	17	18	19	20
Part No.	4CH0850	2CJ0850	2CK1900	4CL1900	2CM1900	2CN1900	4CP1950	2CQ0850	4CR0850	4CS1750	FD1549A
Frequency (MHz)	800 to 900	800 to 900	1850 to 1950	1850 to 1950	1850 to 1950	1850 to 1950	1900 to 2000	800 to 900	800 to 900	1700 to 1800	800 to 900
Isolation (dB)	20 (min.)	21 (min.)	22 (min.)	19 (min.)	24 (min.)	25 (min.)	26 (min.)	27 (min.)	25 (min.)	29 (min.)	26 (min.)
Dimension No.	※1	※2	※2	※1	※2	※2	※1	※2	※1	※1	※3
Part No.	2CH1900	4CJ1900	4CK1750	4CL1450	FD1541	2CN1750	4CP0900	FD1540	4CR0900	4CS0850	4CT0850
Frequency (MHz)	1850 to 1950	1850 to 1950	1700 to 1800	1400 to 1500	1850 to 1950	1700 to 1800	850 to 950	800 to 1000	850 to 950	800 to 900	800 to 900
Isolation (dB)	18 (min.)	18 (min.)	18 (min.)	22 (min.)	19 (min.)	25 (min.)	23 (min.)	24 (min.)	25 (min.)	27 (min.)	28 (min.)
Dimension No.	※2	※1	※1	※1	※3	※2	※1	※3	※1	※1	※1
Part No.	4CH1750	2CJ0900	4CK1900	4CL1750	2CM0900	4CN0850	4CP0950	4CQ0850	4CR0950	4CS0900	FD1542
Frequency (MHz)	1700 to 1800	850 to 950	1850 to 1950	1700 to 1800	850 to 950	800 to 900	900 to 1000	800 to 900	900 to 1000	850 to 950	1850 to 1950
Isolation (dB)	19 (min.)	21 (min.)	18 (min.)	20 (min.)	24 (min.)	25 (min.)	24 (min.)	25 (min.)	25 (min.)	27 (min.)	26 (min.)
Dimension No.	※1	※2	※1	※1	※2	※1	※1	※1	※1	※1	※3
Part No.	2CH1950	4CJ1450	4CK1950	4CL1950	4CM1750	4CN0900	4CP1450	FD1548	4CR1750	4CS1450	2CT0900
Frequency (MHz)	1900 to 2000	1400 to 1500	1900 to 2000	1900 to 2000	1700 to 1800	850 to 950	1400 to 1500	1850 to 1950	1700 to 1800	1400 to 1500	850 to 950
Isolation (dB)	18 (min.)	21 (min.)	18 (min.)	19 (min.)	19 (min.)	25 (min.)	23 (min.)	23 (min.)	28 (min.)	29 (min.)	30 (min.)
Dimension No.	※2	※1	※1	※1	※1	※1	※1	※3	※1	※1	※2
Part No.	4CH1900	4CJ1750	2CK1950	2CL1450	2CM1950	4CN1450	4CP1750	4CQ1900	4CR1900		4CT0900
Frequency (MHz)	1850 to 1950	1700 to 1800	1900 to 2000	1400 to 1500	1900 to 2000	1400 to 1500	1700 to 1800	1850 to 1950	1850 to 1950		850 to 950
Isolation (dB)	18 (min.)	18 (min.)	21 (min.)	22 (min.)	24 (min.)	22 (min.)	26 (min.)	27 (min.)	28 (min.)		26 (min.)
Dimension No.	※1	※1	※2	※2	※2	※1	※1	※1	※1		※1
Part No.	4CH1950	4CJ1950		2CL1750	4CM1950	4CN1750	4CP1900	4CQ1750	2CR0900		4CT0950
Frequency (MHz)	1900 to 2000	1900 to 2000		1700 to 1800	1900 to 2000	1700 to 1800	1850 to 1950	1700 to 1800	850 to 950		900 to 1000
Isolation (dB)	17 (min.)	18 (min.)		23 (min.)	18 (min.)	19 (min.)	26 (min.)	27 (min.)	28 (min.)		25 (min.)
Dimension No.	※1	※1		※2	※1	※1	※1	※1	※2		※1
Part No.		2CJ1750			4CM0950	4CN1950	2CP0900	4CQ0950			4CT1450
Frequency (MHz)		1700 to 1800			900 to 1000	1900 to 2000	850 to 950	900 to 1000			1400 to 1500
Isolation (dB)		20 (min.)			24 (min.)	25 (min.)	26 (min.)	24 (min.)			30 (min.)
Dimension No.		※2			※1	※1	※2	※1			※1
Part No.					4CM1450	2CN1950	2CP0950	4CQ1450			2CT0950
Frequency (MHz)					1400 to 1500	1900 to 2000	900 to 1000	1400 to 1500			900 to 1000
Isolation (dB)					21 (min.)	25 (min.)	26 (min.)	27 (min.)			30 (min.)
Dimension No.					※1	※2	※2	※1			※2
Part No.					4CM1900		2CP1450	4CQ1950			
Frequency (MHz)					1850 to 1950		1400 to 1500	1900 to 2000			
Isolation (dB)					18 (min.)		26 (min.)	27 (min.)			
Dimension No.					※1		※2	※1			
Part No.								2CQ1450			
Frequency (MHz)								1400 to 1500			
Isolation (dB)								27 (min.)			
Dimension No.								※2			

(Dual)

Part No.	Range1			Range2			Dimension No.
	Frequency (MHz)	Coupled Value (dB)	Isolation (dB)	Frequency (MHz)	Coupled Value (dB)	Isolation (dB)	
FD1819	824 to 849	20	25 (min.)	1850 to 1910	16	20 (min.)	※4
2WJ0836	824 to 849	14	17 (min.)	1850 to 1910	14	20 (min.)	※4
FD1812D	880 to 915	19	24 (min.)	1710 to 1785	14	17 (min.)	※4
FD1824	880 to 915	14	18 (min.)	1710 to 1785	14	18 (min.)	※4
FD1825	880 to 915	19	24 (min.)	1710 to 1785	19	23 (min.)	※4

NOTE: Emits EHF.

### Dimensions in mm (not to scale)



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