

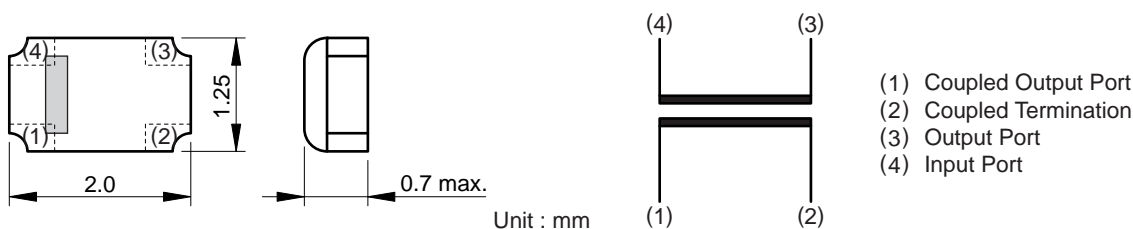


EIA Size 0805 Chip Directional Couplers

Features

- 1: Ideal applications in mobile phones, and smallest chips available.
- 2: Offer competitive pricing.
- 3: Coupling and insertion loss are provided according to a customers specification.

Dimensions, Schematics



Specifications

Style No.	Frequency Range [MHz]	Insertion Loss [dB]	Coupling [dB]	Directivity [dB]	VSWR (max.)	RF Impedance [Ω]	Max. Input Power [W]	Termination Resistor [Ω]	Note
DCS2141-0900-G	800~1000	0.3 max.	15.0 \pm 2	10 min.	1.2	50	5 max.	24	
DCS2142-0900-G	800~1000	0.3 max.	17.0 \pm 2	10 min.	1.2	50	5 max.	43	
DCS2143-0900-G	800~1000	0.3 max.	20.0 \pm 2	13 min.	1.2	50	5 max.	51	
DCS2144-0900-G	800~1000	0.3 max.	22.0 \pm 2	15 min.	1.3	50	5 max.	51	
DCS2145-0900-G	800~1000	0.3 max.	24.0 \pm 2	15 min.	1.3	50	5 max.	75	
DCS2146-0900-G	800~1000	0.3 max.	27.0 \pm 2	15 min.	1.3	50	5 max.	68	
DCS2141-1500-G	1400~1600	0.8 max.	10.5 \pm 2	7 min.	1.3	50	5 max.	24	
DCS2142-1500-G	1400~1600	0.4 max.	12.5 \pm 2	9 min.	1.3	50	5 max.	43	
DCS2143-1500-G	1400~1600	0.3 max.	15.5 \pm 2	10 min.	1.3	50	5 max.	51	
DCS2144-1500-G	1400~1600	0.3 max.	18.0 \pm 2	11 min.	1.4	50	5 max.	51	
DCS2145-1500-G	1400~1600	0.3 max.	20.0 \pm 2	15 min.	1.3	50	5 max.	75	
DCS2146-1500-G	1400~1600	0.3 max.	23.0 \pm 2	15 min.	1.4	50	5 max.	68	
DCS2141-1700-G	1600~1800	1.0 max.	9.5 \pm 2	6 min.	1.4	50	5 max.	24	
DCS2142-1700-G	1600~1800	0.6 max.	11.5 \pm 2	8 min.	1.3	50	5 max.	43	
DCS2143-1700-G	1600~1800	0.3 max.	14.5 \pm 2	10 min.	1.3	50	5 max.	51	
DCS2144-1700-G	1600~1800	0.3 max.	16.5 \pm 2	10 min.	1.5	50	5 max.	51	
DCS2145-1700-G	1600~1800	0.3 max.	18.5 \pm 2	15 min.	1.4	50	5 max.	75	
DCS2146-1700-G	1600~1800	0.3 max.	21.5 \pm 2	15 min.	1.4	50	5 max.	68	
DCS2141-1900-G	1800~2000	1.4 max.	8.5 \pm 2	6 min.	1.5	50	5 max.	24	
DCS2142-1900-G	1800~2000	0.7 max.	10.5 \pm 2	8 min.	1.4	50	5 max.	43	
DCS2143-1900-G	1800~2000	0.4 max.	13.5 \pm 2	10 min.	1.3	50	5 max.	51	
DCS2144-1900-G	1800~2000	0.3 max.	15.5 \pm 2	10 min.	1.6	50	5 max.	51	
DCS2145-1900-G	1800~2000	0.3 max.	17.5 \pm 2	15 min.	1.4	50	5 max.	75	
DCS2146-1900-G	1800~2000	0.3 max.	20.5 \pm 2	15 min.	1.4	50	5 max.	68	
DCS2144-2100-G	2000~2200	0.3 max.	15.0 \pm 2	10 min.	1.7	50	5 max.	51	*
DCS2145-2100-G	2000~2200	0.3 max.	17.0 \pm 2	15 min.	1.4	50	5 max.	75	*
DCS2146-2100-G	2000~2200	0.3 max.	20.0 \pm 2	15 min.	1.4	50	5 max.	68	*
DCS2144-2400-G	2300~2500	0.4 max.	14.0 \pm 2	8 min.	1.8	50	5 max.	51	
DCS2145-2400-G	2300~2500	0.3 max.	16.0 \pm 2	15 min.	1.5	50	5 max.	75	
DCS2146-2400-G	2300~2500	0.3 max.	19.5 \pm 2	15 min.	1.4	50	5 max.	68	

* Correspondence W - CDMA

Operating Temperature Range : -30~+85°C

Specifications of products are subject to change without notice.

e-dcs2125-p01-10



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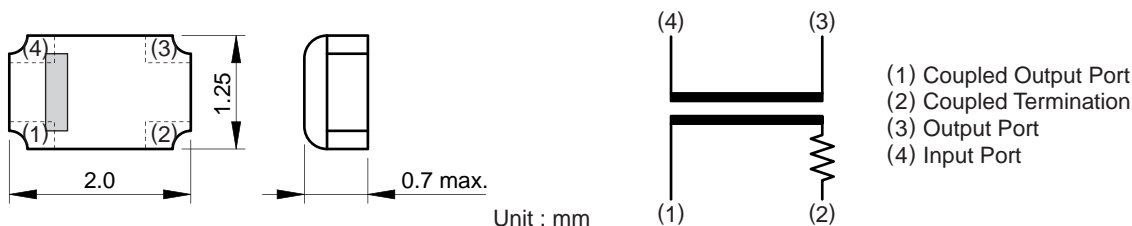


EIA Size 0805 Termination Resistor Designed-In Chip Directional Couplers

Features

- 1: Ideal applications in mobile phones, and smallest chips available.
- 2: A 200 mW termination resistor is designed in. Offer competitive pricing.
- 3: Coupling and insertion loss are provided according to a customers specification.

Dimensions, Schematics



Characteristics

Style No.	Frequency Range [MHz]	Insertion Loss [dB]	Coupling [dB]	Directivity [dB]	VSWR (max.)	RF Impedance [Ω]	Max. Input Power [W]
DCS214A-0900-G	800~1000	0.3 max.	21.0 ± 2	15 min.	1.35	50	3 max.
DCS214C-0900-G	800~1000	0.3 max.	17.0 ± 2	13 min.	1.20	50	3 max.
DCS214E-0900-G	800~1000	0.3 max.	20.0 ± 2	15 min.	1.20	50	3 max.
DCS214G-0900-G	800~1000	0.4 max.	15.5 ± 2	10 min.	1.20	50	3 max.
DCS214K-0900-G	800~1000	0.3 max.	27.0 ± 2	15 min.	1.30	50	3 max.
DCS214M-0900-G	800~1000	0.3 max.	24.0 ± 2	15 min.	1.35	50	3 max.
DCS214S-0900-G	800~1000	0.3 max.	22.0 ± 2	15 min.	1.30	50	3 max.
DCS214A-1500-G	1400~1600	0.3 max.	17.0 ± 2	11 min.	1.35	50	3 max.
DCS214C-1500-G	1400~1600	0.6 max.	12.5 ± 2	10 min.	1.20	50	2 max.
DCS214E-1500-G	1400~1600	0.3 max.	15.5 ± 2	13 min.	1.20	50	2 max.
DCS214G-1500-G	1400~1600	0.8 max.	11.0 ± 2	8 min.	1.20	50	2 max.
DCS214K-1500-G	1400~1600	0.6 max.	23.0 ± 2	13 min.	1.40	50	3 max.
DCS214M-1500-G	1400~1600	0.4 max.	20.0 ± 2	13 min.	1.40	50	3 max.
DCS214S-1500-G	1400~1600	0.3 max.	18.0 ± 2	13 min.	1.35	50	3 max.
DCS214A-1700-G	1600~1800	0.3 max.	16.0 ± 2	10 min.	1.35	50	2 max.
DCS214C-1700-G	1600~1800	0.8 max.	11.5 ± 2	9 min.	1.20	50	2 max.
DCS214E-1700-G	1600~1800	0.3 max.	14.5 ± 2	12 min.	1.20	50	2 max.
DCS214G-1700-G	1600~1800	1.0 max.	10.0 ± 2	7 min.	1.30	50	2 max.
DCS214K-1700-G	1600~1800	0.8 max.	22.0 ± 2	12 min.	1.40	50	3 max.
DCS214M-1700-G	1600~1800	0.6 max.	19.0 ± 2	12 min.	1.40	50	3 max.
DCS214S-1700-G	1600~1800	0.3 max.	17.0 ± 2	12 min.	1.35	50	3 max.
DCS214A-1900-G	1800~2000	0.3 max.	15.0 ± 2	8 min.	1.35	50	2 max.
DCS214C-1900-G	1800~2000	0.9 max.	10.5 ± 2	9 min.	1.20	50	2 max.
DCS214E-1900-G	1800~2000	0.4 max.	13.5 ± 2	10 min.	1.20	50	2 max.
DCS214G-1900-G	1800~2000	1.2 max.	9.0 ± 2	7 min.	1.35	50	2 max.
DCS214K-1900-G	1800~2000	1.0 max.	21.0 ± 2	12 min.	1.40	50	3 max.
DCS214M-1900-G	1800~2000	0.7 max.	18.0 ± 2	12 min.	1.40	50	3 max.
DCS214S-1900-G	1800~2000	0.3 max.	16.0 ± 2	12 min.	1.35	50	2 max.
DCS214A-2100-G	2000~2200	0.3 max.	14.0 ± 2	8 min.	1.35	50	2 max.
DCS214C-2100-G	2000~2200	1.0 max.	10.0 ± 2	8 min.	1.20	50	2 max.
DCS214E-2100-G	2000~2200	0.5 max.	12.5 ± 2	10 min.	1.20	50	2 max.
DCS214G-2100-G	2000~2200	1.5 max.	8.0 ± 2	6 min.	1.35	50	2 max.
DCS214K-2100-G	2000~2200	0.3 max.	20.0 ± 2	12 min.	1.40	50	3 max.
DCS214M-2100-G	2000~2200	0.3 max.	17.0 ± 2	12 min.	1.40	50	3 max.
DCS214S-2100-G	2000~2200	0.4 max.	15.0 ± 2	10 min.	1.35	50	2 max.
DCS214A-2400-G	2300~2500	0.4 max.	13.0 ± 2	8 min.	1.35	50	2 max.
DCS214C-2400-G	2300~2500	1.2 max.	8.5 ± 2	8 min.	1.50	50	2 max.
DCS214E-2400-G	2300~2500	0.6 max.	11.5 ± 2	10 min.	1.20	50	2 max.
DCS214G-2400-G	2300~2500	1.8 max.	7.0 ± 2	6 min.	1.40	50	2 max.
DCS214K-2400-G	2300~2500	0.4 max.	19.0 ± 2	12 min.	1.40	50	3 max.
DCS214M-2400-G	2300~2500	0.4 max.	16.0 ± 2	11 min.	1.40	50	2 max.
DCS214S-2400-G	2300~2500	0.4 max.	14.0 ± 2	11 min.	1.35	50	2 max.

Operating Temperature Range : -30 ~ +85°C

⚠ Specifications of products are subject to change without notice.

e-dcs2125r-p01-10



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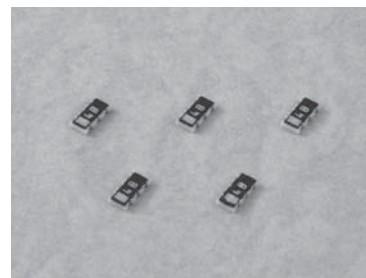
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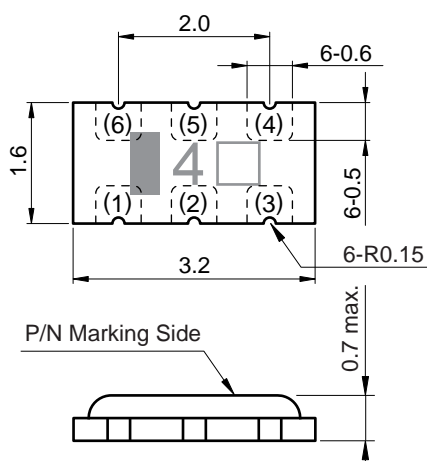
EIA Size 1206 Chip Directional Couplers

Features

- 1: Ideal applications in mobile phones, and smallest chips available.
- 2: A 200 mW termination resistor is designed in. Offer competitive pricing.
- 3: Coupling and insertion loss are provided according to a customers specification.



Dimensions



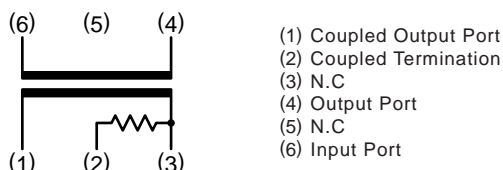
Unit:mm

*DCS3143



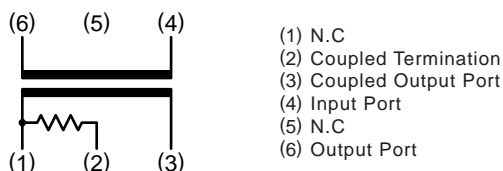
Schematics

DCS314A / DCS314C / DCS314E / DCS314J



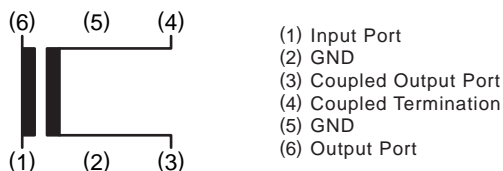
- (1) Coupled Output Port
- (2) Coupled Termination
- (3) N.C
- (4) Output Port
- (5) N.C
- (6) Input Port

DCS314B / DCS314D / DCS314F



- (1) N.C
- (2) Coupled Termination
- (3) Coupled Output Port
- (4) Input Port
- (5) N.C
- (6) Output Port

DCS3143



- (1) Input Port
- (2) GND
- (3) Coupled Output Port
- (4) Coupled Termination
- (5) GND
- (6) Output Port

Specifications

EIA size 1206 (3.2x1.6 mm)

Style No.	Frequency Range [MHz]	Insertion Loss [dB]	Coupling [dB]	Directivity (Isolation) [dB]	VSWR (max.)	RF Impedance [Ω]	Max. Input Power [W]	Note
DCS314A-0900-G DCS314B-0900-G	800~1000	0.3 max.	21.0±2	13 min. (32 min.)	1.2	50	3.0 max.	
DCS314C-0900-G DCS314D-0900-G	800~1000	0.3 max.	17.0±2	13 min. (28 min.)	1.2	50	5.0 max.	
DCS314E-0900-G DCS314F-0900-G	800~1000	0.3 max.	14.0±2	10 min. (22 min.)	1.2	50	5.0 max.	
DCS314A-1500-G DCS314B-1500-G	1400~1600	0.3 max.	16.7±2	9 min. (24 min.)	1.2	50	3.0 max.	
DCS314C-1500-G DCS314D-1500-G	1400~1600	0.4 max.	12.5±2	10 min. (20 min.)	1.2	50	5.0 max.	
DCS314A-1900-G DCS314B-1900-G	1800~2000	0.3 max.	14.5±2	8 min. (21 min.)	1.2	50	3.0 max.	
DCS314C-1900-G DCS314D-1900-G	1800~2000	0.7 max.	10.5±2	8 min. (17 min.)	1.2	50	5.0 max.	
DCS314A-2150-G	2110~2190	0.4 max.	13.7±1	8 min. (20 min.)	1.2	50	3.0 max.	Correspondence W-CDMA
DCS314J-2150-G	2100~2200	0.3 max.	17.5±1	8 min. (25 min.)	1.5	50	3.0 max.	Correspondence W-CDMA
DCS3143-5800-G	5700~5900	0.3 max.	20.0±1	15 min. (35 min.)	1.2	50	5.0 max.	Correspondence ETC

Operating Temperature Range : -30~+85°C

⚠ Specifications of products are subject to change without notice.

e-dcs3216-p01-10



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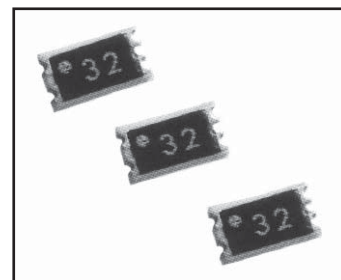
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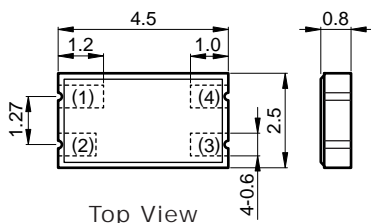
EIA Size 2010 Chip Directional Couplers

Features

- 1: Ideal applications in mobile phones, and smallest chips available.
- 2: A 200 mW termination resistor is designed in. Offer competitive pricing.
- 3: Coupling and insertion loss are provided according to a customers specification.

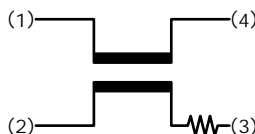


Dimensions, Schematics



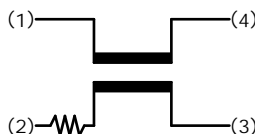
Unit: mm

DCS3120
DCS3220



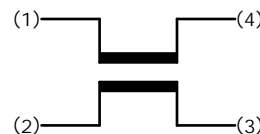
- (1) Input Port
- (2) Coupled Output Port
- (3) Coupled Termination
- (4) Output Port

DCS3320
DCS3420



- (1) Output Port
- (2) Coupled Termination
- (3) Coupled Output Port
- (4) Input Port

DCS3D20
DCS3E20
DCS3F20



- (1) Input Port
- (2) Coupled Output Port
- (3) Coupled Termination
- (4) Output Port

Characteristics

EIA size 2010 (4.5x2.5 mm)

Style No.	Frequency Range [MHz]	Insertion Loss [dB]	Coupling [dB]	Directivity (Isolation) [dB]	VSWR (max.)	RF Impedance [Ω]	Termination Resistor [Ω]	Max. Input Power [W]
DCS3D20-0157-G	136~178	0.25 max.	20±3	17 min. (34 min.)	1.2	50	20	15 max.
DCS3E20-0461-G	403~520	0.2 max.	20±2.5	18 min. (34.5 min.)	1.2	50	39	35 max.
DCS3120-09-G DCS3320-09-G	800~1000	0.3 max.	17±2	18 min. (33 min.)	1.2	50	Designed in	5 max.
DCS3220-09-G DCS3420-09-G	800~1000	0.3 max.	21±2	15 min. (34 min.)	1.2	50	Designed in	Designed in 200mW
DCS3F20-0873-G	806~941	0.2 max.	20±2	18 min. (36 min.)	1.2	50	43	10 max.
DCS3120-15-G DCS3320-15-G	1400~1600	0.4 max.	13±2	15 min. (26 min.)	1.3	50	Designed in	Designed in 200mW
DCS3220-15-G DCS3420-15-G	1400~1600	0.3 max.	16±2	15 min. (29 min.)	1.2	50	Designed in	Designed in 200mW
DCS3120-19-G DCS3320-19-G	1800~2000	0.6 max.	11±2	15 min. (24 min.)	1.3	50	Designed in	Designed in 200mW
DCS3220-19-G DCS3420-19-G	1800~2000	0.3 max.	14±2	15 min. (27 min.)	1.3	50	Designed in	2 max.
DCS3130-2400-G	2350~2450	1.0 max.	8.5±1	10 min. (17 min.)	1.5	50	Designed in	1 max.
DCS3230-2400-G	2350~2450	0.6 max.	12.3±1	13 min. (24 min.)	1.6	50	Designed in	2 max.

Operating Temperature Range : -30~+85°C

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e-dcs4525-p01-10



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