

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 | 0.3 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. | 1.20 | 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

EIA Size 0805 Chip Directional Couplers

Features

- 1: Ideal applications in mobile phones, and smallest chips available.
- 2: 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 [Ω] | Max. Input Power [W] | Termination Resistor [Ω] | Note |
|----------------|-------------------------|-----------------------|-----------------|--------------------|-------------|----------|------------------------|----------------------------|------|
| DCS2141-0900-G | 800~1000 | 0.3 max. | 15.0±2 | 10 min. | 1.2 | 50 | 5 max. | 24 | |
| DCS2142-0900-G | 800~1000 | 0.3 max. | 17.0±2 | 10 min. | 1.2 | 50 | 5 max. | 43 | |
| DCS2143-0900-G | 800~1000 | 0.3 max. | 20.0±2 | 13 min. | 1.2 | 50 | 5 max. | 51 | |
| DCS2144-0900-G | 800~1000 | 0.3 max. | 22.0±2 | 15 min. | 1.3 | 50 | 5 max. | 51 | |
| DCS2145-0900-G | 800~1000 | 0.3 max. | 24.0±2 | 15 min. | 1.3 | 50 | 5 max. | 75 | |
| DCS2146-0900-G | 800~1000 | 0.3 max. | 27.0±2 | 15 min. | 1.3 | 50 | 5 max. | 68 | |
| DCS2141-1500-G | 1400~1600 | 0.8 max. | 10.5±2 | 7 min. | 1.3 | 50 | 5 max. | 24 | |
| DCS2142-1500-G | 1400~1600 | 0.4 max. | 12.5±2 | 9 min. | 1.3 | 50 | 5 max. | 43 | |
| DCS2143-1500-G | 1400~1600 | 0.3 max. | 15.5±2 | 10 min. | 1.3 | 50 | 5 max. | 51 | |
| DCS2144-1500-G | 1400~1600 | 0.3 max. | 18.0±2 | 11 min. | 1.4 | 50 | 5 max. | 51 | |
| DCS2145-1500-G | 1400~1600 | 0.3 max. | 20.0±2 | 15 min. | 1.3 | 50 | 5 max. | 75 | |
| DCS2146-1500-G | 1400~1600 | 0.3 max. | 23.0±2 | 15 min. | 1.4 | 50 | 5 max. | 68 | |
| DCS2141-1700-G | 1600~1800 | 1.0 max. | 9.5±2 | 6 min. | 1.4 | 50 | 5 max. | 24 | |
| DCS2142-1700-G | 1600~1800 | 0.6 max. | 11.5±2 | 8 min. | 1.3 | 50 | 5 max. | 43 | |
| DCS2143-1700-G | 1600~1800 | 0.3 max. | 14.5±2 | 10 min. | 1.3 | 50 | 5 max. | 51 | |
| DCS2144-1700-G | 1600~1800 | 0.3 max. | 16.5±2 | 10 min. | 1.5 | 50 | 5 max. | 51 | |
| DCS2145-1700-G | 1600~1800 | 0.3 max. | 18.5±2 | 15 min. | 1.4 | 50 | 5 max. | 75 | |
| DCS2146-1700-G | 1600~1800 | 0.3 max. | 21.5±2 | 15 min. | 1.4 | 50 | 5 max. | 68 | |
| DCS2141-1900-G | 1800~2000 | 1.4 max. | 8.5±2 | 6 min. | 1.5 | 50 | 5 max. | 24 | |
| DCS2142-1900-G | 1800~2000 | 0.7 max. | 10.5±2 | 8 min. | 1.4 | 50 | 5 max. | 43 | |
| DCS2143-1900-G | 1800~2000 | 0.4 max. | 13.5±2 | 10 min. | 1.3 | 50 | 5 max. | 51 | |
| DCS2144-1900-G | 1800~2000 | 0.3 max. | 15.5±2 | 10 min. | 1.6 | 50 | 5 max. | 51 | |
| DCS2145-1900-G | 1800~2000 | 0.3 max. | 17.5±2 | 15 min. | 1.4 | 50 | 5 max. | 75 | |
| DCS2146-1900-G | 1800~2000 | 0.3 max. | 20.5±2 | 15 min. | 1.4 | 50 | 5 max. | 68 | |
| DCS2144-2100-G | 2000~2200 | 0.3 max. | 15.0±2 | 10 min. | 1.7 | 50 | 5 max. | 51 | * |
| DCS2145-2100-G | 2000~2200 | 0.3 max. | 17.0±2 | 15 min. | 1.4 | 50 | 5 max. | 75 | * |
| DCS2146-2100-G | 2000~2200 | 0.3 max. | 20.0±2 | 15 min. | 1.4 | 50 | 5 max. | 68 | * |
| DCS2144-2400-G | 2300~2500 | 0.4 max. | 14.0±2 | 8 min. | 1.8 | 50 | 5 max. | 51 | |
| DCS2145-2400-G | 2300~2500 | 0.3 max. | 16.0±2 | 15 min. | 1.5 | 50 | 5 max. | 75 | |
| DCS2146-2400-G | 2300~2500 | 0.3 max. | 19.5±2 | 15 min. | 1.4 | 50 | 5 max. | 68 | |

* Correspondence W - CDMA

Operating Temperature Range : -30~+85 C