

High Power Dual Directional Couplers

DC Series

Shinhom's wideband high-power dual-directional coupler, with frequency coverage of 9kHz to 18GHz and power up to 5000W, is widely used in amplifiers, broadcasting, laboratory testing and communications.



| Part No. | Frequency | Power | Coupling | Insertion loss | Directional | Standing wave |
|------------------------|--------------|-------|----------|----------------|-------------|---------------|
| | (GHz) | (W) | (dB) | (dB,max.) | (dB,min.) | (max.) |
| DC-0.5-32-5K-40-N7 | 500KHz-0.032 | 5000 | 40 ± 1 | 0.15 | 18 | 1.2 |
| DC-10-170-5K-60-S7 | 0.01~0.17 | 5000 | 60 ± 1.5 | 0.2 | 16 | 1.2 |
| DC-1-50-3K-58-NS | 0.001~0.05 | 3000 | 58 ± 8 | 0.1 | 20 | 1.1 |
| DC-1.6-30-2K5-50-N | 0.0016~0.03 | 2500 | 50 ± 0.5 | 0.05 | - | 1.15 |
| DC-2-30-2K-50-NS | 0.002~0.03 | 2000 | 50 ± 1.5 | 0.3 | 18 | 1.2 |
| DC-30-80-2K-60-NS | 0.03~0.08 | 2000 | 60 ± 1 | 0.2 | 20 | 1.1 |
| DC-80-1000-2K-40-7S | 0.08~1 | 2000 | 40 ± 1.5 | 0.25 | 20 | 1.2 |
| DC-80-1000-2K-50-7S | 0.08~1 | 2000 | 50 ± 1 | 0.3 | 20 | 1.3 |
| DC-80-1000-2K-60-7S | 0.08~1 | 2000 | 60 ± 1.5 | 0.25 | 20 | 1.2 |
| DC-30-80-1K5-50-NS | 0.03~0.08 | 1500 | 50 ± 1 | 0.4 | 20 | 1.1 |
| DC-80-1000-1K5-50-NS | 0.08~1 | 1500 | 50 ± 1 | 0.3 | 20 | 1.15 |
| DC-9K-260-1K-40-NS | 9KHz~0.26 | 1000 | 40 ± 1.5 | 0.4 | 10 | 1.25 |
| DC-0.25-300-1K-50-NS | 250KHz~0.3 | 1000 | 50 ± 2 | 0.5 | 16 | 1.2 |
| DC-0.25-300-1K-50-N | 250KHz~0.3 | 1000 | 50 ± 2 | 0.5 | 16 | 1.2 |
| DC-2-32-1K-40-NS | 0.002~0.032 | 1000 | 40 ± 1 | 0.5 | 20 | 1.2 |
| DC-2-32-1K-50-NS | 0.002~0.032 | 1000 | 50 ± 1.5 | 0.3 | 20 | 1.2 |
| DC-25-1000-1K-50-NS | 0.025~1 | 1000 | 50 ± 1.5 | 0.5 | 15 | 1.2 |
| DC-80-1000-1K-50-NS | 0.08~1 | 1000 | 50 ± 1 | 0.3 | 20 | 1.3 |
| DC-200-400-1K-40-NS | 0.2-0.4 | 1000 | 40 ± 1 | 0.2 | 20 | 1.15 |
| DC-300-2000-1K-50-N | 0.3-2 | 1000 | 50 ± 2 | 0.5 | 16 | 1.15 |
| DC-1270-1305-1K-30-7-1 | 1.27~1.305 | 1000 | 30 ± 1 | 0.15 | 30 | 1.15 |
| DC-500-2000-K8-50-NS | 0.5~2 | 800 | 50 ± 0.8 | 0.3 | 18 | 1.35 |
| DC-600-2700-K8-50-NS | 0.6~2.7 | 800 | 50 ± 1.2 | 0.3 | 20 | 1.3 |
| DC-300-6000-K6-30-NS | 0.3-6 | 600 | 30 ± 0.9 | 0.7 | 15 | 1.4 |
| DC-300-6000-K6-40-NS | 0.3-6 | 600 | 40 ± 1.0 | 0.7 | 15 | 1.4 |
| DC-400-6000-K6-30-NS | 0.4-6 | 600 | 30 ± 0.8 | 0.6 | 15 | 1.3 |
| DC-400-6000-K6-40-NS | 0.4-6 | 600 | 40 ± 0.9 | 0.6 | 15 | 1.3 |
| DC-400-8000-K6-30-NS | 0.4-8 | 600 | 30 ± 0.9 | 0.7 | 14 | 1.4 |
| DC-400-8000-K6-40-NS | 0.4-8 | 600 | 40 ± 1.0 | 0.7 | 14 | 1.4 |
| DC-500-6000-K6-30-NS | 0.5-6 | 600 | 30 ± 0.7 | 0.6 | 15 | 1.3 |

| Part No. | Frequency | Power | Coupling | Insertion loss | Directional | Standing wave |
|------------------------|------------|-------|----------|----------------|-------------|---------------|
| | (GHz) | (W) | (dB) | (dB,max.) | (dB,min.) | (max.) |
| DC-500-6000-K6-40-NS | 0.5-6 | 600 | 40 ± 0.8 | 0.6 | 15 | 1.3 |
| DC-500-8000-K6-30-NS | 0.5-8 | 600 | 30 ± 0.8 | 0.7 | 14 | 1.4 |
| DC-500-8000-K6-40-NS | 0.5-8 | 600 | 40 ± 0.9 | 0.7 | 14 | 1.4 |
| DC-700-6000-K6-30-NS | 0.7-6 | 600 | 30 ± 0.7 | 0.5 | 15 | 1.3 |
| DC-700-6000-K6-40-NS | 0.7-6 | 600 | 40 ± 0.7 | 0.5 | 15 | 1.3 |
| DC-1000-6000-K6-30-NS | 1-6 | 600 | 30 ± 0.7 | 0.5 | 15 | 1.3 |
| DC-1000-6000-K6-40-NS | 1-6 | 600 | 40 ± 0.7 | 0.5 | 15 | 1.3 |
| DC-2000-6000-K6-30-NS | 2-6 | 600 | 30 ± 0.7 | 0.4 | 15 | 1.3 |
| DC-2000-6000-K6-40-NS | 2-6 | 600 | 40 ± 0.7 | 0.4 | 15 | 1.3 |
| DC-2000-8000-K6-30-NS | 2-8 | 600 | 30 ± 0.8 | 0.4 | 14 | 1.4 |
| DC-2000-8000-K6-40-NS | 2-8 | 600 | 40 ± 0.8 | 0.4 | 14 | 1.4 |
| DC-0.009-100-K5-50-NS | 9KHz-0.1 | 500 | 50 ± 1 | 0.3 | 16 | 1.2 |
| DC-0.01-100-K5-50-NS | 10KHz-0.1 | 500 | 50 ± 1 | 0.5 | 16 | 1.3 |
| DC-225-460-K5-30-N | 0.225-0.46 | 500 | 30 ± 1 | 0.3 | 20 | 1.1 |
| DC-400-2500-K5-50-NS | 0.4-2.5 | 500 | 50 ± 1.2 | 0.3 | 18 | 1.3 |
| DC-500-3000-K5-60-NS | 0.5-3 | 500 | 60 ± 2 | 0.4 | 16 | 1.4 |
| DC-700-6000-K5-35-NS | 0.7-6 | 500 | 35 ± 1 | 0.5 | 12 | 1.7 |
| DC-1000-2000-K5-30-N | 1-2 | 500 | 30 ± 1 | 0.25 | 26 | 1.5 |
| DC-1000-2000-K5-50-N | 1-2 | 500 | 50 ± 1 | 0.25 | 26 | 1.5 |
| DC-1000-6000-K5-40-NS | 1-6 | 500 | 40 ± 1 | 0.5 | 12 | 1.7 |
| DC-2000-4000-K5-50-NS | 2-4 | 500 | 50 ± 1.5 | 0.4 | 20 | 1.25 |
| DC-500-6000-K4-40-N | 0.5-6 | 400 | 40 ± 2 | 0.5 | 15 | 1.5 |
| DC-500-18000-K4-30-NS | 0.5-18 | 400 | 30 ± 1.2 | 1 | 10 | 1.6 |
| DC-500-18000-K4-30-NS | 0.5-18 | 400 | 40 ± 1.2 | 1 | 10 | 1.6 |
| DC-1000-18000-K4-30-NS | 1-18 | 400 | 30 ± 1.2 | 0.8 | 10 | 1.6 |
| DC-1000-18000-K4-40-NS | 1-18 | 400 | 40 ± 1.2 | 0.8 | 10 | 1.6 |
| DC-2000-5000-K4-45-NS | 2-5 | 400 | 45 ± 1.5 | 0.5 | 10 | 1.5 |
| DC-2000-6000-K4-40-8S | 2-6 | 400 | 40 ± 1 | 0.3 | 15 | 1.5 |
| DC-2000-18000-K4-30-NS | 2-18 | 400 | 30 ± 1 | 0.6 | 10 | 1.6 |
| DC-2000-18000-K4-40-NS | 2-18 | 400 | 40 ± 1 | 0.6 | 10 | 1.6 |
| DC-4000-6000-K4-40-NS | 4-6 | 400 | 40 ± 1.5 | 0.6 | 10 | 1.3 |
| DC-6000-18000-K4-30-NS | 6-18 | 400 | 30 ± 1 | 0.5 | 10 | 1.6 |
| DC-6000-18000-K4-40-NS | 6-18 | 400 | 40 ± 1 | 0.5 | 10 | 1.6 |