



Model CDN10K AF Series
Coupling/Decoupling Network for Signal Lines
10 kHz–80 MHz

The Model CDN10K AF Series are coupling/decoupling networks to couple common mode signals onto un-screened un-balanced wires. Models exist for two and four cables. The networks are designed to meet the NAMUR NE21 standard requirements. Calibration adapter sets (set of two adapters for AE and EUT ports) are required for calibration of these networks. 150-50 ohm adapter set (CR00100CD, set of 2) is available for these networks.

| MODELS | SPECIFICATIONS | |
|---|--|------------|
| | CDN10K AF2 | CDN10K AF4 |
| ELECTRICAL | | |
| Number of Conductors | 2 | 4 |
| Calibration Adapter Set | CA AF2 | CA AF4 |
| Maximum AC voltage EUT/AE Ports | <350V | |
| Maximum DC voltage EUT/AE Ports | <600V | |
| Current Ratings | 3A | |
| RF Coupling Port Frequency Range | 10 KHz – 80 MHz | |
| RF Coupling Port Voltage Level | <40 V | |
| RF Coupling Port Impedance | 50 Ω | |
| Voltage Attenuation generator/EUT | 10 dB +1 dB/-3 dB | |
| Insertion Loss EUT/AE | <0.5 dB DC to 20 kHz | |
| | <30 dB at 150 kHz | |
| | <20 dB at 80 MHz | |
| Decoupling Attenuation Generator/AE | >50 dB up to 30 MHz | |
| | >20 dB at 80 MHz | |
| Common Mode Impedance at EUT Connector | 150 kHz to 26 kHz: 150 \pm 20 Ω | |
| | 26 kHz to 80 kHz: 150 +60 Ω /-45 Ω | |
| | 80 kHz to 80 MHz: 150 +60 Ω /-45 Ω | |
| Coupling Factor | 0 dB + 0 dB/-3 dB | |
| MECHANICAL | | |
| I/O Connectors | Multi Contact Safety Socket Audio Socket | |
| RF Coupling Port Coupling Connector | BNC | |