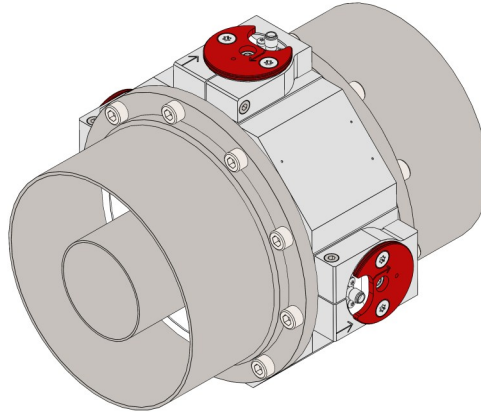


3-Slot RL-120 Directional Coupler

DC3A120

FEATURES

- *Accuprobe*: Equalized-Response Probes
- Single Accuprobe: Integrated Load; Short-Circuit Button
- Dual Accuprobe: Simultaneous FWD and RFL Meas. ⁽¹¹⁾
- Compatible with COM-TECH PM-Series Power Monitoring Unit
- SMA or N Probe Connectors
- Modular Connector System
- 10-Year Warranty



SPECIFICATIONS

Code / Revision	UHF: C-DC3A120nC / A VHF B.III: C-DC3A120/nB / A VHF B.I: C-DC3A120/nA / A FM: C-DC3A120nF / A <i>n: Number of Probes</i>
Frequency Range	UHF: 470-862 MHz VHF B.III: 174-240 MHz VHF B.I: 47-100 MHz FM: 87.5-108 MHz
Max RMS Input Power ⁽³⁾	UHF: 48.0 kW (700 MHz) VHF B.III: 83.0 kW (230 MHz) VHF B.I: 134.0 kW (88 MHz) FM: 121.0 kW (108 MHz)
Probe Connectors	SMA or N Female
Reference Load	Single: 2 W, Integrated Dual: None ⁽¹¹⁾
Max Measurement Level	32 dBm
No. of Probes / Measures	Single: Up to 3 / Up to 3 Dual ⁽¹¹⁾ : Up to 3 / Up to 6
Coupling Ranges ⁽¹⁰⁾	UHF: -52 to -72 dB -46 to -54 dB (High Coupling ⁽⁹⁾) VHF B.III: -52 to -72 dB -60 to -80 dB (Low Coupling ⁽⁹⁾) VHF B.I: -66 to -86 dB FM: -59 to -79 dB
In-Band Coupling Variation	(Nominal Coupling) ± 0.2 dB
Return Loss (VSWR)	> 34 dB (1.04)
Directivity	Single: > 32 dB Dual ⁽¹¹⁾ : > 26 dB
Max Operating Temperature (Body)	65 °C (149 °F)
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60
Dimensions / Weight ⁽¹⁾	56x179x207 mm / 3.7 kg
Connectors ⁽⁸⁾ (Input, Output)	1x 150 mm; D-PC150S RL-120 <i>FastLine</i> Socket (Default) D-PC150T RL-120 <i>FastLine</i> Plug D-PC150X RL-120 <i>FastLine</i> Flange D-PC150U 6+1/8" <i>FastLine</i> Socket D-PC150V 6+1/8" <i>FastLine</i> Flange

⁽¹⁾ Approximate, default configuration ⁽³⁾ Altitude < 1500 m (4,900 ft.), Free air, Ambient temp. < 30 °C (86 °F) ⁽⁸⁾ Other Connections available ⁽⁹⁾ Available on Single Accuprobe only

⁽¹⁰⁾ Coupling Range Steps: 0.1 dB ⁽¹¹⁾ Both measurement ports have the same coupling level, and both must be terminated, with RL \geq 27 dB.