



The Becker UHF 4-Way Splitter is used to split the main arterial line into three separate Leaky Feeder Arterials. In doing so the RF power is divided equally between the four resultant arterials. The DC Power may also be routed in various directions by opening and closing the on board jumpers. DC injection screw terminals also allow this unit to be used as a make shift "Power Coupler". Additional jumpers allow the technician to internally terminate the unused RF ports.

The RF and DC Signals present on the "Base Station" port are separated using a passive network. The 3dB SMD splitter and PCB transmission lines redirect the RF signals to the "Main Arterial", "Split-1" and "Split-2" ports with a minimum of loss. The DC portion is similarly split to the four ports through a set of 4 jumper terminals, one for each of the ports. The "Main Arterial", "Split-1" and "Split-2" ports are driven by passive combiner networks used to re-combine the DC and RF signals. A local DC-Injection screw terminal is also included to act as a power coupler for any or all of the 4 ports simultaneously. The unit thereby takes the DC and RF signals present on the original arterial and repeats (-3dB RF + -3dB DC = max 6dB) copies on to three additional arterials.

Purchase Contact Details

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+27 11 801-5900 DISCLAIMER

Functional Features

+27 11 793-7900 All information given in this datasheet is correct www.becker-mining.com to the best of our knowledge, but the company reserves the right to make alterations and amendments to the detailed specification at its discretion.

Cechnical Features

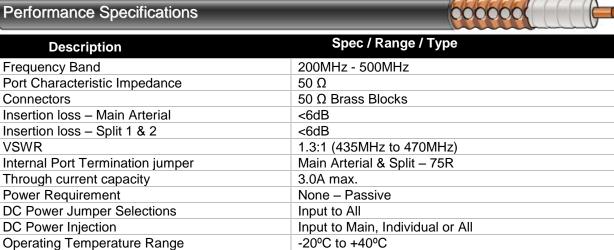
- **DC Power Jumper Selections :**
 - 1. Input to All
 - 2. Input to Main Arterial
 - 3. Input to Split-1 and Split-2
 - 4. Main Arterial to Splits 1&2
- DC Power Injection facility on screw terminals
- 50 Ohm terminal facility included for unused ports

- Low Loss Near theoretical insertion loss to Main Arterial, Split-1 and Split-2
- 3A DC power through feed facility on all ports
- Brass block custom connection system specifically for radiating cable systems
- The electronic circuitry is constructed using bought out and individually certified 3dB broad-band splitter transformers

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Performance Specifications



Environmental Specifications

Description	Spec / Range / Type
Operating Temperature Limits	-20°C to +40°C
Storage Temperature Limits	-40°C to +65°C
Operating Altitude	Up to 5500m ASL
Operating Humidity	10 to 85% (Non Condensing)
Protection Class	IP68 according to EN60529
Impact Resistance	7Nm – Body Only – Not indicator lights
Flammability	UL94 V-O
Toxicity	Halogen and Cadmium Free
Electromagnetic Interference (EMI)	FCC Emissions Class A (Industrial) CE Emissions Class A (Industrial)

Mechanical Specifications

Description	Spec / Range / Type
Width (Excluding mounting brackets)	190mm
Height (Excluding mounting brackets)	75mm
Depth (Excluding mounting brackets)	61mm
Weight	1.23kg
Principal Materials	Enclosure: Glass Reinforced Polyester GRP Connectors: Electroplated Brass
	Thermoplastic polymer glass fiber
Finish	Natural Grey – (Similar to RAL7001)
Gasket	Silicon rubber
Mounting Options	4 holes M6 directly

Internal Circuitry





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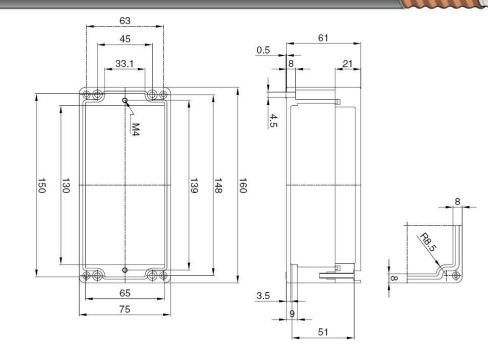


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Test Results Sheet

Mechanical Drawing



Block Diagram

