



## RNG-AMPS VHF STANDARD LINE AMPLIFIER

- Highest RF Gain Amplifier Available
- Local Diagnostics
- Supply Voltage Range, 5.5 36Vdc
- Facilitates Ethernet Connectivity
- 16 Simultaneous Noise-Free Radio
  Channels



## **FEATURES**

Becker Mining Systems smartcom® 150 Standard Line Amplifiers compensate for Leaky Feeder cable and splitting losses while providing 16 simultaneous noise-free voice radio channels (no third order intermodulation products) and Ethernet connectivity using standard cable modems. All smartcom® 150 line amplifiers provide up to 500 m spacing.

Local Diagnostics, Ethernet, video and accurate Automatic Gain Control (AGC) without Return Pilot noise buildup are built-in to every RNG-AMPS amplifier. Upgrade to remote diagnostic version available. Call for more information.

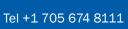
2 Year component & workmanship warranty.

	MECHANICAL DATA			
^	Dimensions (L x H x W)	323 x 90 x 180 mm (12.7 x 3.5 x 7.1 in)		
	Weight (nominal)	1.00 kg (2.20 lbs)		
	LF Connectors	Two 3 Terminal Lug Connectors or Brass Block Connectors, PG21 cable grips		
	Test Ports	2 BNC jack ports		

ENVIRONMENTAL DATA						
Temperature Range	-20 to +60° C (-4 to +140° F)					
Protection Class	NEMA 4x (IP66)					

## **TECHNICAL DATA**

PERFORMA	NCE SP	PECIFICATIONS				
Input Imped	ance	75 Ω				
Input Voltage		5.5-36	Vdc			
Current Consumption		128 mA @ 12 Vdc, 73 mA @ 36 Vdc				
DC Blocking	Jumper Selection on Board Input/Output					
Amplifier Spacing		250-500m				
	ınstream					
Gain		10-25 dB				
Gain Adjust	Gain Adjust Range		15 dB (1 dB steps)			
Gain Control		MGC,	AGC			1
Bandwidth		15 MF	lz			Ī
3 dB Bandpa	ass	145-160 MHz				
3 <sup>rd</sup> Order Inte free Channe Capacity		16 Voice/Data, 8 Video (2 per main branch)			_	
Ethernet Bandpass		6.0 MI	Нz			
DOCSIS 2.0 Rate	30.34 Mbps (64 QAM)					
Third Order Intercept (3I	+31 dBm					
	stream					
Gain		13-28 dB				
Gain Adjust Range Gain Control Bandwidth 3 dB Bandpass Ethernet Bandpass		15 dB (1 dB steps)				
		MGC, AGC				
		15 MHz				
		170-185 MHz				
		6.4 MHz (max)				
DOCSIS 2.0 rate	20.48 Mbps (16 QAM)					
Third Order Intercept (3I	+29 dBm					



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Technical data are limit values.

If the product is integrated into systems or operated in combination with other devices, its permissible operating values can deviate from these limit values. Subject to technical modifications without prior notice.

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