



RNG-AMP VHF DIAGNOSTIC LINE AMPLIFIER

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



FEATURES

Becker Mining Systems smartcom® 150 Diagnostic 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/Remote Diagnostics, Ethernet, video and accurate Automatic Gain Control (AGC) without Return Pilot noise buildup are built-in to every amplifier.

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

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

TECHNICAL DATA

PERFORMANCE SPECIFICATIONS		
Input Impedance	75 Ω	
Input Voltage	5.5-36 Vdc	
Current	128 mA @ 12 Vdc,	
Consumption	73 mA @ 36 Vdc	
DC Blocking	Jumper Selection on	
	Board Input/Output	
Amplifier Spacing	250-500m	
Downstream		
Gain	22-23 dB (max)	
Gain Adjust Range	15 dB (1 dB steps)	
Gain Control	MGC, AGC	
Bandwidth	15 MHz	
3 dB Bandpass	145-160 MHz	
3 rd Order Intermod	16 Voice/Data, 8	
Free Channel	Video (2 per main	
Capacity	branch)	
DOCSIS 2.0 Bandpass	6.0 MHz	
DOCSIS 2.0 Data Rate	30.34 Mbps (64 QAM)	
Third Order Intercept (3IP)	+31 dBm	
Upstream		
Gain	24-25 dB (max)	
Gain Adjust Range	15 dB (1 dB steps)	
Gain Control	MGC, AGC	
Bandwidth	15 MHz	
3 dB Bandpass	170-185 MHz	
DOCSIS 2.0	•	
Bandpass	6.4 MHz (max)	
DOCSIS 2.0 Data Rate	20.48 Mbps (16 QAM)	
Third Order	+29 dBm	
Intercept (3IP)	220 dbiii	
smartethernet Capabilities		
Bandpass	100 MHz	
Data Rate	Up to 1 Gbps	

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.

Rev. L



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