



RNG-H36D VHF HEAD END

- Interface Between smartcom[®]
- 150/150IS Leaky Feeder Network and Base Station Equipment
- Built-in Automatic Gain Control
- Pre-Amplifier Compensates for Splitting Losses
- 36 Output Voltage

FEATURES

The Becker Mining Systems smartcom® 150 RNG-H36D Head End is the interface between Base Station equipment such as Repeaters and the smartcom® 150/150IS Leaky Feeder network.

Head End units have a pre-amplifier which compensates for the splitting losses in the Head End and performs system Automatic Gain Control (AGC).

The Head End unit also injects DC power onto the Leaky Feeder cable to power smartcom® 150 Line amplifiers located near the basestation.

TECHNICAL DATA

PERFORMANCE SPECIFICATIONS	
Impedance	LF Ports: 75 Ω; Rx/Tx Ports: 50 Ω; DRX Ports: 50 Ω
Leaky Cable Types	RNG-500
Input Voltage	12-14
Output Voltage	36
Current Consumption	410 mA - 550 mA
Output DC Blocking	Jumper select
Output Current Limiting	2.5A
Downstream	
Losses/Gains (nominal)	RF16 Board: -23 dB; Amp: +10-25 dB; Branch Board: -10 dB
IL Range (nominal)	23-8 dB
Bandwidth (3 dB)	15 MHz
3 dB Bandpass	145-160 MHz
3 rd Order Intermod free Channel Capacity	16 Voice/Data, 8 Video (2 per main branch)
Ethernet Bandpass	6.0 MHz
Ethernet Center Frequency	153 MHz
DOCSIS 2.0 data rate	30.34 Mbps (64 QAM)
Third Order Intercept (3IP)	+31 dBm
Upstream	
Losses/Gains (nominal)	RF16 Board: -23 dB; Amp: +10-19 dB; Branch Board: -10 dB
IL Range (nominal)	23-14 dB
Bandwidth (3 dB)	15 MHz
3 dB Bandpass	170-185 MHz
Ethernet Bandpass	6.4 MHz
DOCSIS 2.0 data rate	20.48 Mbps (16 QAM)
Third Order Intercept (3IP)	+29 dBm

MECHANICAL DATA

Enclosure	3U, Steel Enclosure
Dimensions (W x H x D)	483 X 132 X 356 (19 X 5.2 X 14 in)
Weight (nominal)	9.1 kg (20 lbs)
LF Ports	BNC Jack
RX/TX Ports	BNC Jack
DRX Ports	BNC Jack
Power Input	16 AWG Wire

ENVIRONMENTAL DATA

Temperature Range	0 to +50° C (32 to +122° F)
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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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