

**PRODUCT:** BSR75

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1.0	15/07/09	Javier Córdova	First edition.					
1.1	17/08/09	Javier Córdova	Changes in emission designators, clause 1.					

DOCUMENT APPROVAL							
ACTIVITY	NAME	DATE	SIGNATURE				
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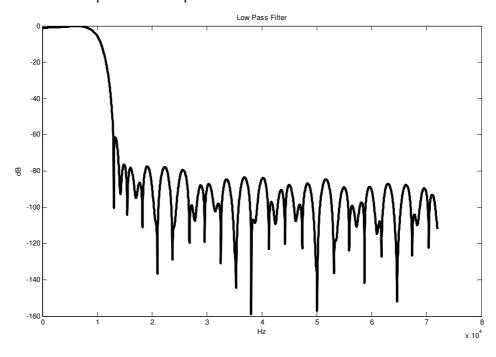
### 1. BSR75 TECHNICAL CHARACTERISTICS

#### Functional characteristics:

- Frequency bands: 380-400, 410-430, 450-470, 806-870 MHz.
- □ Transmit offset frequency: 45MHz for 806-870 MHz band; any for other frequency bands.
- □ Channel spacing: 6.25 KHz, 12.5 Khz or 25 KHz.
- □ Time Division Multiple Access (TDMA): 4 physical channel per carrier.
- $\square$  Modulation:  $\pi/4$ -DQPSK.
- □ Emissions Designators: 20K0D7W, 20K0D7E, 20K0D7D.
- Data bit rate: 36 Kbits/s.
- □ Ethernet interface: IEEE 802.3u,x.
- □ BSR75 is hot swap as a unit, but individual modules (RPS75, RPA75, RTX75, RRX, BSYNC, RCPU) are not.

#### Electrical characteristics:

- □ Nominal voltage: 26,4 Vdc (21.1 31.7 Vdc).
- □ Consumption: 500 W maximum.
- □ Transmitter:
  - □ RF Output Power: 75 W (+48.75 dBm) and from 40 W to 0.6 W in 2 dB steps.
  - Transmitter Frequency Range: 380 400, 410 430, 450 470, 851 870
    MHz.
  - □ Frequency Accuracy: ±0.1 ppm.
  - □ Spurious Emissions: < -70 dBc.
  - □ Adjacent Channel Power (ACP) Ratio: > 60 dB.
  - □ Inter-modulation attenuation: > 40 dB.
  - □ Modulation Fidelity (Digital): < 5%.
  - □ Audio low pass filter response:





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#### □ Receiver:

- □ Receiver Frequency Range: 380 400, 410 430, 450 470, 806 825 MHz.
- □ Sensitivity: < -115 dBm (0.4 uV).
- □ Faded Sensitivity: < -106 dBm.
- □ Selectivity: > 45 dB.
- □ Co-Channel Rejection: < 19 dB.
- □ Spurious response rejection: > 67 dB.
- □ Intermodulation response rejection: > 65 dB.
- □ Unwanted conducted emissions: < -57 dBm.

### Data rate:

- □ Ethernet interface: bandwidth for dimensioning WAN link between Master Site and Base Station Site: 40 Kbps.
- □ Ethernet interface: bandwidth for dimensioning Base Station Site LAN: 60 Kbps.

#### Environmental characteristics:

- □ Operating Temperature Range: -30°C to +60°C (-22°F to +140°F).
- □ Storage Temperature Range: -40°C to +85°C (-40°F to +185°F).
- □ Humidity: 0 to 90% RH @ 50°C (122°F).

#### Mechanical characteristics:

- □ Dimensions (Length x Height x Width): 379mm x 133mm(3U) x 483mm.
- □ Weight: 10250 gr. (10500 gr. with BSYNC).
- □ BSR75 is assembled in a 19"-wide 3U-high rack.