P25 SUITCASE REPEATER

Two-way radio communications at a remote incident can be a challenge. But the P25 Suitcase Repeater is a rapid deployment repeater designed to bring two-way portable radio coverage to a critical incident, command post, or special event. It is an ideal solution to keep public safety and federal government agencies connected.

The Futurecom P25 Suitcase Repeater consists of a vehicular repeater (DVRS), filters and a power supply installed in a protective carrying case. Mounting space is provided to add remote mount APX™ mobile radios of your choice. The suitcase can be powered from a 12 VDC, 120 VAC or 220 VAC supply.

KEY FEATURES AND BENEFITS

- Programmable output power: 1-10 W.
- Available in VHF, UHF, 700 MHz and 800 MHz bands.
- Extends key P25 trunking features to ‘DVRS Enabled’ portable radio users including:
  - Portable Push-to-talk and Emergency ID pass-through
  - Go Ahead and Deny Tones
  - Out of Range, Site Trunking and Failsoft System Status Broadcasts.
- P25 Digital/ Analog operation.
- In-Band or Cross-Band configurations.
- Integrates with remote mount APX 8500, APX 7500, APX 6500 and APX 5500 mobile radios.
- Operated through mobile radio control head.
- Standard suitcase color: Orange and Black
- Optional colors available: Desert Tan, Yellow, Silver.
- Made of ultra-high impact structural copolymer polypropylene with solid wall design, to meet the most demanding environments.
- Sold exclusively through Motorola Solutions.
GENERAL SPECIFICATIONS

Dimensions: Height x Width x Depth, Weight 525 x 435 x 220 mm (20.6 x 17.0 x 8.6 in), 22.7 kg (50 lb)

Channel Spacing 12.5 or 25 kHz programmable (25 kHz operation not available in USA)

Number of Channels 192

CTCSS/DCS Programmable per channel

Power Supply AC: 120 V or 220 V, DC: 13.8 V ±20%, negative ground only

Current Drain: 117 V AC Standby Receive: 0.5 A Transmit: 2.8 A

Current Drain: 13.8 V DC Standby Receive: 1.6 A Transmit: 14.5 A

Operating Temperature -30 °C to +60 °C (-22 °F to +140 °F)

Antenna Impedance 50 ohms

Duty Cycle Continuous (DVR)

EXTERNAL CONNECTORS

Antenna N Female

Computer Interface USB

Power Supply AC-MS3102E14-7P; DC-MS3102E16-11P

EQUIPMENT TYPE ACCEPTANCE

<table>
<thead>
<tr>
<th>FCC</th>
<th>VHF</th>
<th>UHF</th>
<th>700 MHz</th>
<th>800 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>136-174 MHz</td>
<td>380-406 MHz</td>
<td>406.1-512 MHz</td>
<td>764-776 MHz</td>
<td>808-824 MHz</td>
</tr>
<tr>
<td>L06-DVRSVHF</td>
<td>L06-DVRSUHF</td>
<td>L06-DVRS700</td>
<td>L06-DVRS800</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Industry Canada</th>
<th>VHF</th>
<th>UHF</th>
<th>700 MHz</th>
<th>800 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>138-174 MHz</td>
<td>406-1-430MHz</td>
<td>450-470MHz</td>
<td>768-776 MHz</td>
<td>808-824 MHz</td>
</tr>
<tr>
<td>2098B-DVRSVHF</td>
<td>2098B-DVRSUHF</td>
<td>2098B-DVRS700</td>
<td>2098B-DVRS800</td>
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</tbody>
</table>

TRANSMITTER SPECIFICATIONS

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>VHF</th>
<th>UHF</th>
<th>700 MHz</th>
<th>800 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>136-174 MHz</td>
<td>380-430 MHz</td>
<td>450-470 MHz</td>
<td>764-776 MHz</td>
<td>851-869 MHz</td>
</tr>
</tbody>
</table>

Power Output @ Antenna Port 10 W (programmable per channel from 1 W to 10 W)

CTC Option 15 sec to 15 min or Disabled

Max Spurious Output -20 dBm

Frequency Stability ±1.5 ppm

FM Hum and Noise (12.5 / 25 kHz) -37 dB / -43 dB

Audio Response +1, -3 dB of 6 dB / octave pre-emphasis characteristic over 300 Hz to 3 kHz

Audio Distortion <2%

RECEIVER SPECIFICATIONS

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>VHF</th>
<th>UHF</th>
<th>700 MHz</th>
<th>800 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>136-174 MHz</td>
<td>380-430 MHz</td>
<td>450-470 MHz</td>
<td>794-806 MHz</td>
<td>808-824 MHz</td>
</tr>
</tbody>
</table>

Receiver Sensitivity -115 dBm

Frequency Stability ±1.5 ppm

Selectivity 12.5 / 25 kHz -60 dB / -75 dB

Intermodulation -70 dB

Deviation 12.5 / 25 kHz ±2.5 kHz / ±5 kHz

FM Hum and Noise 12.5 / 25 kHz -37 dB / -43 dB

Audio Output (Repeater Detect Audio) 600 mV RMS nominal, flat response

Audio Response +1, -3 dB of 6 dB / octave de-emphasis characteristic over 300 Hz to 3 kHz

Audio Distortion <2%
### Optional Battery Pack and Charger for Transportable DVRS Specifications

**Backup Time For DVRS**
(50:50 Duty Cycle, New Batteries)
- 2 hrs

**Dimensions Height x Width x Depth**
- **Battery Pack**: 245 x 280 x 175 mm (9.7 x 11.0 x 4.9 in)
- **Battery Charger**: 50 x 130 x 125 mm (2.0 x 5.1 x 5.0 in)

**Weight**
- **Battery Pack**: 13.0 kg (28.5 lb)
- **Battery Charger**: 1.8 kg (4.0 lb)
- **Battery Charger Input Voltage**: 100-132 V AC, 50-60 Hz or 220 V AC, 50-60 Hz
- **Battery Pack Output Voltage Range**: 10.9 V DC - 13.8 V DC
- **Charging Temperature**: +20 °C to +25 °C (+68 °F to +77 °F)
- **Operating Temperature**: -15 °C to +50 °C (+5 °F to +122 °F)
- **Storage Temperature**: +25 °C (+77 °F)
- **Charger Output DC Fuse (Reverse DC Polarity Protection)**: 7.5 A, Automotive Blade Type, Fast Blow
- **Charger Compliance**: CSA C22.2, UL 1236
- **Charger DC Plug Compliance**: MIL-C-5015

**Note:** Specifications are subject to change without notice

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### Connectors

<table>
<thead>
<tr>
<th>Battery Pack DC Output</th>
<th>CA3102E16-11SB, MIL-C-5015 Bayonet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charger AC Input</td>
<td>NEMA 5-15P Three Prong AC Plug</td>
</tr>
<tr>
<td>Charger DC Output</td>
<td>CA3106E16-11 PB, MIL-C-5015 Bayonet</td>
</tr>
<tr>
<td>Charging Time</td>
<td>10 hrs approx.</td>
</tr>
<tr>
<td>Float Charge</td>
<td>Required</td>
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</table>

**Product Data Sheet**
P25 Suitcase Repeater
P25 Suitcase Repeater facilitates communications to portable radios