

PMLN5733A MagOne Earbud with In-line Mic/PTT

TETRA MTP3000 Series

Engineering Specifications

PERFORMANCE CHARACTERISTICS

| | |
|------------------------------|--|
| Receive Method: | Single side earpiece |
| Push-to-talk (PTT): | In-Line |
| Noise cancelling microphone: | No |
| Hot mic feature: | Supported through radio software configuration ** |
| Voice Activation (VOX): | Supported through radio software configuration ** |
| Noise Cancelling Microphone: | No |
| Extra VOX-switch on PTT: | No |
| Use Case Environment: | Commercial Level Entry Accessory |
| Audio performance: | Optimal audio performance and assuring the highest quality communication |

PHYSICAL CHARACTERISTICS

| | |
|----------------|---|
| Type: | Earpiece |
| Transmit via: | In-line microphone |
| Clip: | Adjustable garment clip provides flexibility to attach to the body's clothing |
| Colour: | Black |
| Configuration: | Earbud |

STANDARDS EME, RTTE

Acoustics

Speaker

| | |
|-----------------------|--|
| Speaker Diameter: | 14±0.2mm |
| Impedance: | 32Ω ± 15% |
| Input Power: | 50mW (Max), 30mW (Rated) |
| Output Level: | 113 ± 3 dB SPL with IEC-138, at 1mW (0.18V), 1 kHz |
| Maximum Output Level: | < 118dB SPL at maximum radio volume |
| Frequency Response: | 100 Hz - 5 kHz |
| Distortion (THD): | Input: 0.18V <5% 300 Hz - 3 kHz <2% 1 kHz |

Mic

| | |
|---------------------|---------------------------------------|
| Mic Dimension: | Ø6.0x5.0mm |
| Directivity: | Omni Directional Condenser Microphone |
| Impedance: | 2.2 kohm |
| Sensitivity: | -42 ± 2 dB (0 dB =1V/Pa, at 1 kHz) |
| Operating Voltage: | 1-10V |
| Frequency Response: | 50 Hz - 10 kHz |
| Maximum Input SPL: | 110dB (f=1 kHz, THD< 1%) |

Last Modified 08/02/2013 – Specifications are subject to change without notice.
Please contact your Motorola TETRA Solutions representative for more information.

Earpiece housing Specifications

Diameter: 16mm
Case Material: ABS

Power

Power Source: Radio Battery

Cable

Flex Life: 10,000 Cycles (min)
Pull Strength: 10 lbs, Minimum Tensile, for 1 minute
Accessory Connector Case: Flame Retardant Polycarbonate Black

Environmental Specifications

Operating Temperature: -30°C to +55°C
Storage Temperature: -30°C to +55°C, 24 hours each temperature extreme
Thermal shock: -30°C to +55°C, 2 hours each cycle for 24 hours
Humidity: 95% Relative Humidity at +50°C for 8 hours
Rain: N/A
Salt/Fog: 8 hrs exposure to 5% NaCl
Dust: N/A
Vibration: Sine vibration - MIL810F Method 514.5
Drop Shock: 30 inches, 1 loop of 6 planes drop
IP Rating: N/A

Regulatory

EME/ EMC: no radio degradation
CE: no radio degradation

**Please contact subscriber product team for more information

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