

PMLN5732A MagOne Earset with Boom Microphone and In-line PTT
TETRA MTP3000 Series
Engineering Specifications

PERFORMANCE CHARACTERISTICS

Receive Method:	Singe-side earset
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**
Extra VOX-switch on PTT:	No
Use Case Environment:	Commercial level entry accessory

**Please contact subscriber product team for more information

PHYSICAL CHARACTERISTICS

Type:	Earpiece
Transmit via:	Boom microphone
Color:	Black
Configuration:	Earpiece with adjustable boom microphone

STANDARDS

EME, RTTE

ACOUSTIC
Speaker

Type:	Dynamic speaker
Speaker Diameter:	23±0.2mm
Impedance:	32Ω ± 15%
Input Power:	60mW (Max), 30mW (Rated)
Output Level:	116 ± 4dB SPL @200Hz-4kHz (0.178V)
Maximum Output Level:	< 118dB SPL at maximum radio volume
Frequency Range:	100Hz – 5kHz
Distortion (THD):	< 10% for 1mW excitation (0.178mV)

Mic

Type:	Omni Directional Condenser Microphone
Mic Dimension:	Ø6.0x5.0mm
Impedance:	2.2kohm @1KHz
Sensitivity:	-42 ± 2dB @1KHz; (SPL=1Pa, 0dB=1V/Pa)
Operating Voltage:	1-10V
Frequency Range:	70Hz – 10KHz
Maximum Input SPL:	110dB @1KHz, 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 SPECIFICATION

Diameter: 39mm
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

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