

PMLN5729A IMPRES Ear Microphone System
TETRA MTP3000 Series
Engineering Specifications

PERFORMANCE CHARACTERISTICS

IMPRES:	Yes
Receive Method:	Single-side earpiece
Push-to-talk (PTT):	In-line ring-guarded PTT button with swivel clip
Programmable Button:	1 button no dot
Voice Activation (VOX):	No
Extra VOX-switch on PTT:	No
Use Case Environment:	Commercial

PHYSICAL CHARACTERISTICS

Type:	Ear Microphone
Transmit via:	In-ear microphone
Color:	Black
Configuration:	Ear microphone with large PTT body and swivel clip

STANDARDS EME, RTTE

ACOUSTICS

Speaker

Type:	Electromagnetic
Impedance:	3200 ohm \pm 15% @1KHz
Output Level:	95dB \pm 4.5dB @1kHz (0dB=20uPa), Input 0.5mW
Max Output Level:	<118db SPL at maximum radio volume
Frequency Range:	100-5000Hz
Distortion (THD):	<5% @1kHz at rated audio

Microphone

Type:	Electret microphone
Sensitivity:	-13dB \pm 4.5dB @1kHz (0dB=1V/0.5G)
Frequency Range:	200-3000Hz
Maximum Current Drain:	1.2mA

ACCESSORY BODY SPECIFICATION

Earpiece Dimensions:	16.5mm (W) x 29mm (H) x 30mm (D)
Push to talk (PTT) Dimensions:	50mm (W) x 68mm (H) x 35mm (D) with clip
Cable Length:	970mm
Weight:	126g
Clip:	360 degree rotatable clip

POWER

Power Source: Radio Battery

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

CABLE

Flex at Connector:	50,000 cycles (Flex direction: left and right, front and back)
Flex at Earpiece:	5000 cycles
Flex at Transition Module:	10,000 cycles
Axial Pull from Connector:	40 Lbs
Axial Pull at PTT (connector):	25 Lbs
Axial Pull at PTT (earpiece):	15Lbs
Axial Pull from Earpiece:	10 Lbs

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:	-40°C to +70°C
Storage Temperature:	-57°C to +85°C
Thermal shock:	-57°C to +80°C
Humidity:	90% - 95% Relative Humidity at +50°C for 8 hours
Rain:	MIL810F Method 506.4
Salt/Fog:	MIL810F Method 509.4 Procedure 1
Vibration:	MIL810F Method 514.5 Procedure 1 Category 24
Drop/Shock:	MIL810F Method 516.5 Procedure 1
ESD:	IEC/EN61000-4-2
IP Rating:	IP54
EPP compliance:	Per 12M07897W18 Requirements

REGULATORY

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