

# 3M™ Peltor™ Technical Datasheet



PELTOR™

## 3M™ Peltor™ LiteCom MT53H7\*4400-EU

### Product description

The 3M™ Peltor™ LiteCom is a high-performance hearing protector with a built-in communication radio for cable free short-range communication with other LiteCom headsets and portable two-way radios programmed on the same frequency. The noise cancelling speech microphone with VOX functionality enables you to communicate hands free in noisy environments.

### Versions

| Article number   | Description                         | 3M ID number |
|------------------|-------------------------------------|--------------|
| MT53H7A4400-EU   | LiteCom, PMR 446, headband          | XH001680434  |
| MT53H7P3E4400-EU | LiteCom, PMR 446, helmet attachment | XH001680442  |
| MT53H7B4400-EU   | LiteCom, PMR 446, neckband          | XH001680459  |

### Key Features

- Built in two-way radio communication
- 8 channels in the PMR 446 MHz band
- 38 subchannels
- Voice operated transmission (VOX)
- Auto power off function
- Battery status indication
- Voice guided menu system

### Accessories and Spare parts

| Article number | Description                         | 3M ID number |
|----------------|-------------------------------------|--------------|
| HY79           | Hygiene kit                         | XH001651047  |
| HY100A         | Single-use protectors               | XH001651351  |
| HYM1000        | Microphone protector                | XH001651328  |
| M995           | Wind shield for electret microphone | 11003066252  |
| ACK053         | Rechargeable battery                | XH001680608  |
| FR08           | Power supply                        | XH001680194  |
| FR09           | Battery charger                     | XH001680616  |
| 1180 SV        | Battery cover                       | XL001600565  |
| MT53N-12       | Electret microphone                 | XL001633814  |

### Standards and Approval

The product is in conformity with the provisions set out in the following directives. Thereby it fulfils the requirements for CE marking.

- PPE directive 89/686/EEC
- R&TTE-directive 1999/5/EG
- ROHS-directive 2011/65/EU

The product is tested and approved in accordance with following standards:  
EN 352-1:2002 / EN 352-3:2002, EN 62479:2010, EN 300 296-2 V1.3.1,  
EN 301 489-1 V1.9.2, EN 301 489-5 V1.3.1, EN 60950-1:2006 +A11:2009  
+A1:2010 +A11:2009 +A12:2011 +AC:2011, EN 50581:2012



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## Technical Data Specifications

### Materials

Headband wire (stainless steel)

Two-point fastener (POM)

Ear cushion (PVC foil and polyether foam)

Attenuation cushion (Polyether foam)

Headband padding (PVC, Polyether foamfoil)

Cup (ABS plastic)

**Battery Type:** 2x AA alkaline (3,0 V) or NiMH (2,4 V)

**Operating time:** 20 hrs

**Weight** (incl. batteries): 394 g (headband), 418 g (helmet att.)  
384 g (neckband)

**Charging temperature:** 0°C to +40°C

**Operating temperature:** -20°C to +55°C (battery dependent)

**Storage temperature:** -20°C to +55°C

**Recommended shelf life:** 5 years (products), 1 year (batteries)

**Frequency range:** 446 Mhz (PMR)

**Operation mode:** Half duplex

**Channels:** 8 (PMR)

**Channel raster:** 6,25 kHz

**Channel separation:** 12,5 kHz

**Modulation:** FM: 2,5 kHz

**Microphone type:** Noise cancelling Electret (MT53)

**Receiver sensibility:** Typical 122 dBm

**Selective squelch:** CTCSS (38 channels)

**Output power:** 150 mW

**Range:** Up to 3 km depending on conditions

**Power consumption:** Standby: <80 mA

Receiving: <85 mA

Transmitting: <210 mA

### MT53H7A4400-EU

| Frequency (Hz)          | 63   | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
|-------------------------|------|------|------|------|------|------|------|------|
| Mean Attenuation (dB)   | 17.9 | 18.1 | 24.3 | 32.1 | 36.2 | 34.7 | 39.2 | 36.0 |
| Standard Deviation (dB) | 2.5  | 2.4  | 1.7  | 2.2  | 2.6  | 3.6  | 3.3  | 2.4  |
| Assumed Protection (dB) | 15.4 | 15.6 | 22.6 | 29.9 | 33.6 | 31.1 | 35.9 | 33.6 |

SNR=32dB H=33dB M=30dB L=23dB

### MT53H7P3E4400-EU

| Frequency (Hz)          | 63   | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
|-------------------------|------|------|------|------|------|------|------|------|
| Mean Attenuation (dB)   | 17.5 | 18.4 | 24.5 | 31.9 | 37.1 | 35.2 | 39.2 | 36.0 |
| Standard Deviation (dB) | 3.2  | 2.8  | 1.9  | 3.1  | 3.0  | 2.6  | 2.9  | 2.8  |
| Assumed Protection (dB) | 14.3 | 15.6 | 22.6 | 28.8 | 34.1 | 32.7 | 36.3 | 33.2 |

SNR=33dB H=34dB M=30dB L=23dB

### MT53H7B4400-EU

| Frequency (Hz)          | 63   | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
|-------------------------|------|------|------|------|------|------|------|------|
| Mean Attenuation (dB)   | 18.6 | 16.9 | 23.2 | 32.1 | 35.2 | 35.6 | 38.3 | 37.4 |
| Standard Deviation (dB) | 4.0  | 3.0  | 2.4  | 2.5  | 2.1  | 2.9  | 3.7  | 3.2  |
| Assumed Protection (dB) | 14.5 | 13.9 | 20.8 | 29.5 | 33.1 | 32.6 | 34.6 | 34.3 |

SNR=32dB H=34dB M=30dB L=22dB

### In the box

1 x LiteCom

2 x AA Alkaline Batteries

1 x User instruction

### Important Notice:

3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M. The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.

### Warranty

The warranty does not cover any damage caused by neglected maintenance or careless handling. For more information on maintenance, please see the user instruction. For full warranty condition, contact your dealer or local 3M office.



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