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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