

PANASONIC type WM, MICROPHONE INSERTS (Electret)

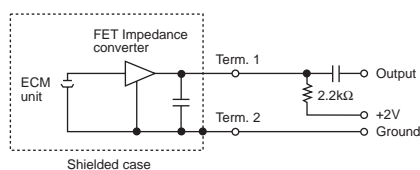
A comprehensive range of electret condenser microphones developed to meet the most exacting requirements of modern communication and audio designs. The devices are available with a wide choice of options including sizes, terminations, sensitivities and electrical characteristics. To aid product choice, a selection table is shown below with diagrams and dimensions on the following page.

- ◆ Choice of size and profile
- ◆ High quality
- ◆ Omni-directional (with noise cancelling versions also available)
- ◆ Wide selection of sensitivity
- ◆ Solder pad or pcb pin terminations

| Nom. Size (mm) | Terminations | Sensitivity (dB) † | | Impedance (Ω max.) | Directivity | Frequency Response (Hz) | Supply Voltage (10V max.) | Current Drain (mA max.) | Sensitivity Reduction (max.) | Signal/ Noise Ratio (dB) | Manf. Part No. & Anglia Order Code | Diag. No. | | |
|---------------------------------|--------------|--------------------|----------|--------------------|------------------|-------------------------|---------------------------|-------------------------|------------------------------|--------------------------|------------------------------------|-----------|-----------|---|
| | | Nom. | Tol. | | | | | | | | | | | |
| ULTRA-MINIATURE (6mm nom. dia.) | | | | | | | | | | | | | | |
| 6 x 2 | PCB Pins | -44 | ±3 | 2200 | Omni-directional | 20 - 16,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-64PCT | 1 | | |
| | | -46 | ±3 | 2200 | Omni-directional | 20 - 16,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-64PCX | 1 | | |
| 6 x 3 | PCB Pins | -40 | ±3 | 2200 | Omni-directional | 20 - 16,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-62PCU | 1 | | |
| | | -44 | ±3 | 2200 | Omni-directional | 20 - 16,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-62BT | 2 | | |
| | | -44 | ±3 | 2200 | Omni-directional | 20 - 16,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-62PCT | 1 | | |
| | | -45 | ±4 | 2200 | Omni-directional | 20 - 16,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-62B | 2 | | |
| | | -45 | ±4 | 2200 | Omni-directional | 20 - 16,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-62PC | 1 | | |
| | | -46 | ±3 | 2200 | Omni-directional | 20 - 16,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-62PCX | 1 | | |
| | Solder Pads | -40 | ±3 | 2200 | Omni-directional | 20 - 16,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-62CCU | 3 | | |
| | | -44 | ±3 | 2200 | Omni-directional | 20 - 16,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-62AT | 3 | | |
| | | -44 | ±3 | 2200 | Omni-directional | 20 - 16,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-62CCT | 3 | | |
| | | -45 | ±4 | 2200 | Omni-directional | 20 - 16,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-62A | 3 | | |
| 6 x 5 | Solder Pads | -42 | ±3 | 2200 | Omni-directional | 20 - 20,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-60AY | 5 | | |
| | | -44 | ±3 | 2200 | Omni-directional | 20 - 20,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-60AT | 5 | | |
| | | -46 | ±3 | 2200 | Omni-directional | 20 - 20,000 | 2V | 0.5 | -3dB at 1.5V | >58dB | WM-60AX | 5 | | |
| SUB-MINIATURE (10mm nom. dia.) | | | | | | | | | | | | | | |
| 10 x 5 | PCB Pins | -40 | ±2 | 3000 | Omni-directional | 20 - 16,000 | 1.5V | 0.3 | -3dB at 1.1V | >60dB | WM-52BP | 6 | | |
| | | -40 | ±3 | 2200 | Omni-directional | 20 - 16,000 | 2.5V | 0.6 | -3dB at 2V | >60dB | WM-54BU | 7 | | |
| | | -42 | ±2 | 3000 | Omni-directional | 20 - 16,000 | 1.5V | 0.3 | -3dB at 1.1V | >60dB | WM-52BH | 6 | | |
| | | -42 | ±3 | 3000 | Omni-directional | 20 - 16,000 | 1.5V | 0.3 | -3dB at 1.1V | >60dB | WM-52BY | 6 | | |
| | | -42 | ±2 | 2200 | Omni-directional | 20 - 16,000 | 2.5V | 0.6 | -3dB at 2V | >60dB | WM-54BH | 7 | | |
| | | -42 | ±3 | 2200 | Omni-directional | 20 - 16,000 | 2.5V | 0.6 | -3dB at 2V | >60dB | WM-54BY | 7 | | |
| | | -44 | ±3 | 3000 | Omni-directional | 20 - 16,000 | 1.5V | 0.3 | -3dB at 1.1V | >60dB | WM-52BT | 6 | | |
| | | -44 | ±2 | 2200 | Omni-directional | 20 - 16,000 | 2.5V | 0.6 | -3dB at 2V | >60dB | WM-54BM | 7 | | |
| | | -44 | ±3 | 2200 | Omni-directional | 20 - 16,000 | 2.5V | 0.6 | -3dB at 2V | >60dB | WM-54BT | 7 | | |
| | | -46 | ±3 | 2200 | Omni-directional | 20 - 16,000 | 2.5V | 0.6 | -3dB at 2V | >60dB | WM-54BX | 7 | | |
| | | -54* | ±4 | 680 | Noise Cancelling | 100 - 10,000 | 1.5V | 0.5 | -3dB at 1V | >58dB | WM-55D103 | 8 | | |
| | | 10 x 7 | PCB Pins | -38 | ±2 | 1500 | Omni-directional | 20 - 16,000 | 1.5V | 0.3 | -2dB at 1V | >60dB | WM-034DBR | 9 |
| | | | | -40 | ±2 | 1500 | Omni-directional | 20 - 16,000 | 1.5V | 0.3 | -2dB at 1V | >60dB | WM-034DBP | 9 |
| -42 | ±2 | | | 1500 | Omni-directional | 20 - 16,000 | 1.5V | 0.3 | -3dB at 1V | >60dB | WM-034DBH | 9 | | |
| Solder Pads | -36 | | ±2 | 1500 | Omni-directional | 20 - 16,000 | 1.5V | 0.3 | -2dB at 1V | >60dB | WM-034DU | 10 | | |
| | -38 | | ±2 | 1500 | Omni-directional | 20 - 16,000 | 1.5V | 0.3 | -2dB at 1V | >60dB | WM-034DR | 10 | | |
| | -40 | | ±2 | 1500 | Omni-directional | 20 - 16,000 | 1.5V | 0.3 | -2dB at 1V | >60dB | WM-034DP | 10 | | |
| | -42 | | ±2 | 1500 | Omni-directional | 20 - 16,000 | 1.5V | 0.3 | -3dB at 1V | >60dB | WM-034DH | 10 | | |
| | -42 | | ±3 | 2200 | Omni-directional | 20 - 16,000 | 4.5V | 0.8 | -3dB at 3V | >60dB | WM-034CY | 10 | | |
| | -44 | | ±2 | 1500 | Omni-directional | 20 - 16,000 | 1.5V | 0.3 | -3dB at 1V | >60dB | WM-034DM | 10 | | |
| | -46 | | ±3 | 2200 | Omni-directional | 20 - 16,000 | 4.5V | 0.8 | -3dB at 3V | >60dB | WM-034CX | 10 | | |

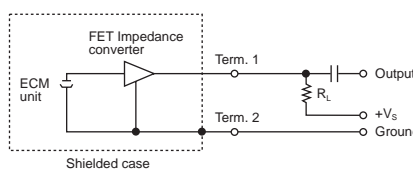
* at 50cm
† 0dB=1V/Pa, 1kHz

Schematic



Types Covered

- WM-62PC
- WM-64PC
- WM-62CC



Types Covered

| Types Covered | V _s | R _L |
|---------------|----------------|----------------|
| WM-62B | 2V | 2.2kΩ |
| WM-62A | 2V | 2.2kΩ |
| WM-66D | 2V | 2.2kΩ |
| WM-60A | 2V | 2.2kΩ |
| WM-52B | 1.5V | 3.0kΩ |
| WM-54B | 2.5V | 2.2kΩ |
| WM-55D | 1.5V | 680Ω |
| WM-034DB | 1.5V | 1.5kΩ |
| WM-034C | 4.5V | 2.2kΩ |
| WM-034D | 1.5V | 1.5kΩ |

Panasonic
Other types available to special order

ULTRA-MINIATURE (6mm nom. dia.)

Diagram 1 – WM-62PC/WM-64PC

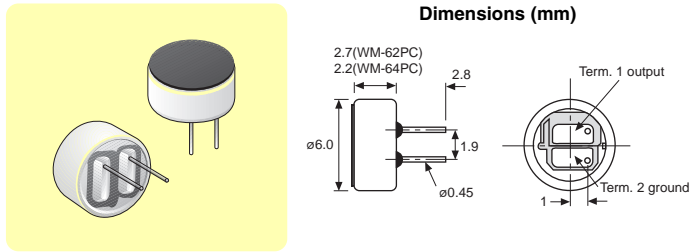


Diagram 2 – WM-62B

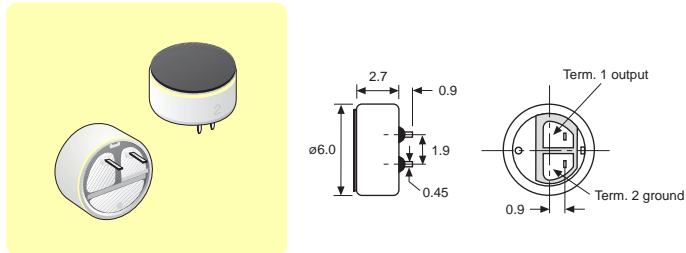


Diagram 3 – WM-62CC/WM-62A

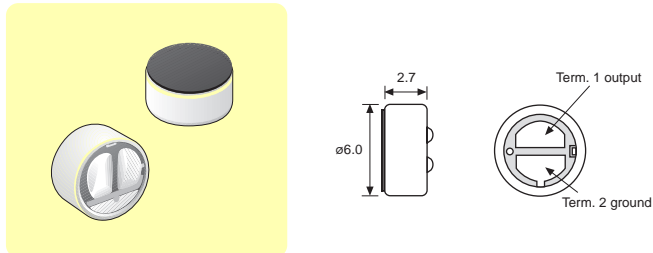


Diagram 4 – WM-66D

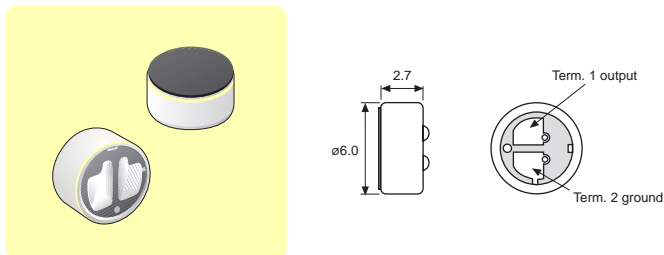
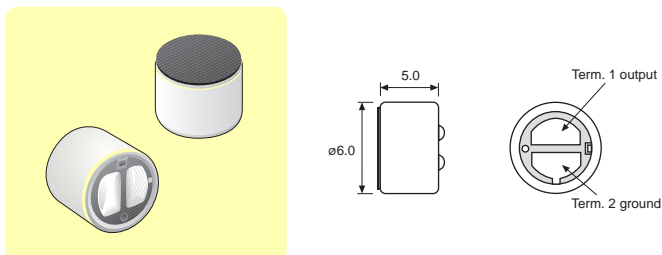


Diagram 5 – WM-60A



SUB-MINIATURE (10mm nom. dia.)

Diagram 6 – WM-52B

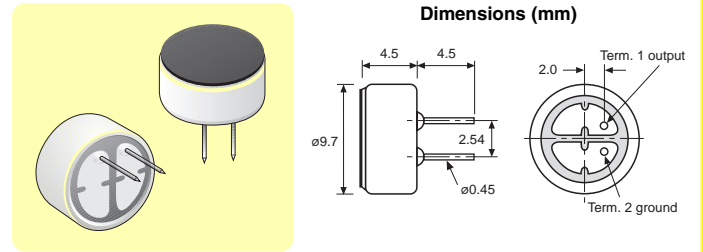


Diagram 7 – WM-54B

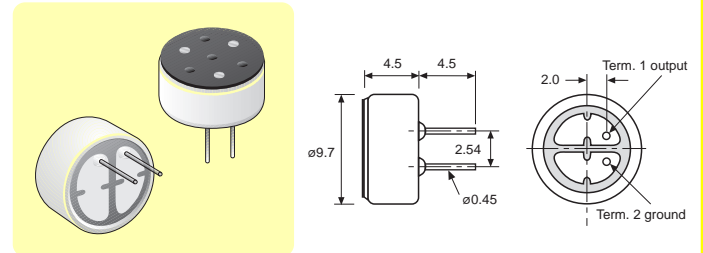


Diagram 8 – WM-55D

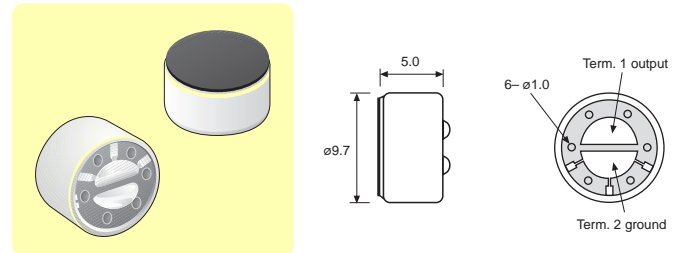


Diagram 9 – WM-034DB

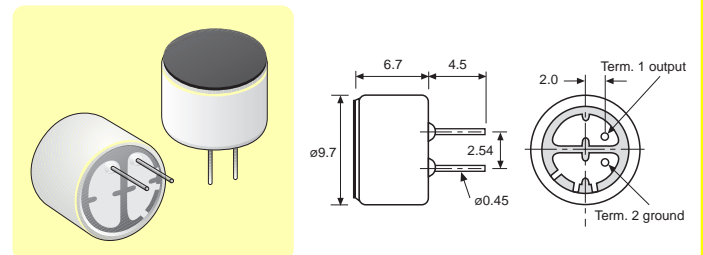


Diagram 10 – WM-034C/WM-034D

