

### Unidirectional Electret Condenser Microphone

#### BCM9750U

Unidirectional microphone for general use

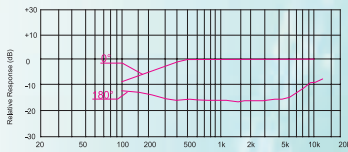
#### Specifications

1. Sensitivity: See below
2. Impedance: Less than 680ohm
3. Directional: Unidirectional
4. S/N Ratio: More than 58dB(0dB=1V/Pa, 1kHz)
5. Max. Input Sound Level: 100dB S.P.L
6. Frequency Response: 100Hz-10kHz
7. Rate Voltage: 1.5V
8. Decreasing Voltage characteristic: -3dB(at 1V)

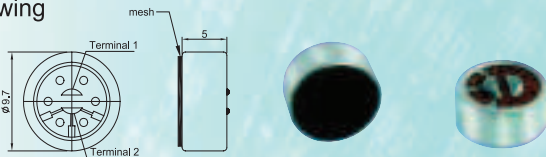
#### Notes:

1. Test Condition  $V_s=1.5V$ ,  $R_L=680ohm$   
Sensitivity (1KHz):  $-47 \pm 4dB$ ,  $-50 \pm 4(0dB=1V/Pa, 1kHz)$

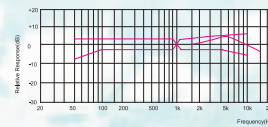
#### Frequency Resonse Curve



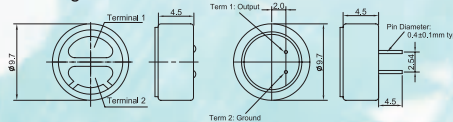
#### Drawing



#### Frequency Resonse Curve



#### Drawing



### Omni-Directional Electret Condenser Microphone

#### BCM9765 BCM9765P

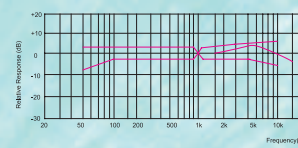
Useful for tape recorders, toys, telephones, and almost any other applications

1. Sensitivity: see below
2. Impedance: 2.2kohm
3. Directivity: omnidirectional
4. Frequency: 20 - 16,000Hz
5. Max. operation voltage: 10V
6. Current consumption: 0.5mA (max.)
7. Sensitivity reduction: within -3dB ( $V_s: 4.5V \rightarrow 1.5V$ )
8. S/N ratio: more than 60dB

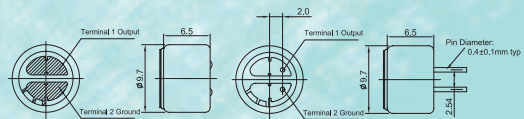
#### Notes:

1. Test Condition:  $V_s=4.5V$ ,  $R_L=2.2K\Omega$   
Sensitivity:  $0dB=1V/Pa, 1kHz$ ,  $-44 \pm 2, -42 \pm 2, -40 \pm 2, -38 \pm 2$ ,  
 $-36 \pm 2, -34 \pm 2, -32 \pm 2$

#### Frequency Resonse Curve



#### Drawing



### Omni-Directional Electret Condenser Microphone

#### BCM9745PC

High cost performance, electret condenser microphone cartridge.  
useful for almost any type of telephone and other applications

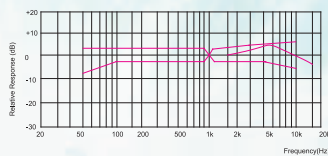
#### Specifications

1. Sensitivity: See below
2. Impedance: Less than 2Kohm
3. Directional: Omnidirectional
4. S/N Ratio: more than 60dB(0dB=1V/Pa, 1kHz)
5. Max. Input Sound Level: 100dB S.P.L
6. Frequency Response: 20Hz-16kHz
7. Rate Voltage: 1.5V
8. Operating Voltage: 1.5-10V
9. Capacitor: 10pF
10. Decreasing Voltage characteristic: -3dB(at 1V)

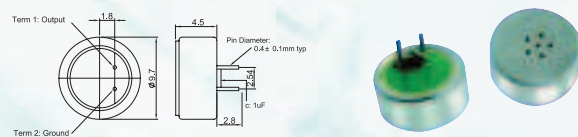
#### Notes:

1. Test Condition  $V_s=1.5V$ ,  $R_L=2kohm$   
Sensitivity (1KHz):  $-38 \pm 2dB$ ,  $-40 \pm 2$  (0dB=1V/Pa, 1kHz)

#### Frequency Resonse Curve



#### Drawing



### Omni-Directional Electret Condenser Microphone

#### BCM9767 BCM9767P

Useful for tape recorders, toys, telephones, and almost any other applications

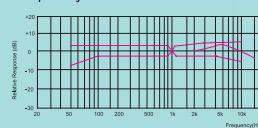
#### Specifications:

1. Sensitivity: see below
2. Impedance: Less than 2.2kohm
3. Directivity: omnidirectional
4. Frequency: 20 - 16,000Hz
5. Max. operation voltage: 10V
6. Current consumption: 0.5mA (max.)
7. Sensitivity reduction: within -3dB ( $V_s: 1.5V$ )
8. S/N ratio: more than 60dB

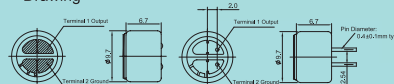
#### Notes:

1. Test Condition  $V_s=3.0V$ ,  $R_L=2.2K\Omega$   
Sensitivity (1KHz):  $0dB=1V/Pa$ ,  $-44 \pm 2, -42 \pm 2, -40 \pm 2, -38 \pm 2, -36 \pm 2$
2. Test Condition  $V_s=1.5V$ ,  $R_L=2Kohm$   
Sensitivity (1KHz):  $0dB=1V/Pa$ ,  $-36 \pm 2, -38 \pm 2, -40 \pm 2$

#### Frequency Resonse Curve



#### Drawing



### Omni-Directional Electret Condenser Microphone

#### BCM9745 BCM-9745P

useful for almost any type of telephone and other applications

#### Specifications:

1. Sensitivity: see below
2. Impedance: 2.2Kohm
3. Directivity: omnidirectional
4. Frequency: 100 - 16,000Hz
5. Max. operation voltage: 10V
6. Current consumption: 0.6mA (max.)
7. Sensitivity reduction: within -3dB ( $V_s: 2.0V \rightarrow 1.5V$ )
8. S/N ratio: more than 60dB

#### Notes:

1. Test Condition  $V_s=2.5V$ ,  $R_L=2.2Kohm$   
Sensitivity (1KHz):  $0dB=1V/Pa$ ,  $-38 \pm 3, -40 \pm 3, -42 \pm 3, -44 \pm 3$   
built-in capacitor is available according to clients' requests

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