

**Product Guide****C 1070** 165mm (6.5") 100V High Power 35W Ceiling Ball Speaker

## C 1070 165mm 100V High Power 35W Ceiling Ball Speaker

- ✓ 35W power output for increased sound dispersion
- ✓ Excellent speech intelligibility
- ✓ High quality speaker driver developed for BGM, paging and emergency warning applications
- ✓ Ideal for large open areas
- ✓ Omni directional design
- ✓ Fitted with supervisory capacitor for line monitoring.
- ✓ 1 year warranty



### Application

The spherical speaker enclosure and parabolic shaped reflector combine to create an omni-directional loud speaker, allowing 360° horizontal sound dispersion.

With an attractive appearance, these loudspeakers are invaluable where it is impractical to install traditional ceiling type speakers. Used in large open areas with very high raked, suspended, concrete, or exposed ceilings.

Typically these type of ceilings will be found in places of worship, gymnasiums, train stations, airports, factories, markets, shopping centres etc.

Fitted with high efficiency drivers, they are excellent for high ambient noise locations and offer extremely articulate reproduction suitable for both background music and paging applications.

Fitted with a high efficiency 100 volt line matching transformer and 22µF line monitoring capacitor.

### About Redback® Speaker Drivers

Each custom designed speaker and transformer combination has been specifically engineered to ensure a wide frequency range and dispersion angle, plus a high sound pressure level (SPL) ensuring excellent music and speech intelligibility; which is highly desirable.

Redback® drivers exhibit optimum frequency response and efficiency for BGM, paging and EWIS applications. The transformers are wound on professional grade grain oriented steel cores for high efficiency and extended frequency response.

Each transformer is fitted with multiple power tapings which are selected via a tab on the top of the transformer.

### Installation Guidelines

Supplied complete with stainless steel wire suspension kit allowing installation from a single fixing point.

The optional C 1075 flush mount bracket may be used allowing the C 1070 to be mounted to a solid ceiling without the use of the suspension cables.



### Testing

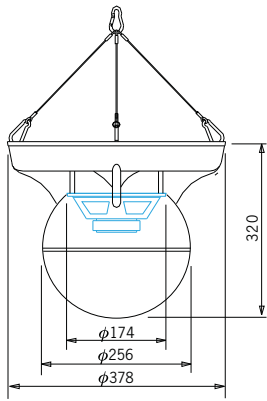
Redback® drivers are subject to strenuous factory testing reducing the risk of unit failure or performance reduction over time. Each driver has a power rating well above the max tapping of the transformer, ensuring reliable operation and excellent longevity.

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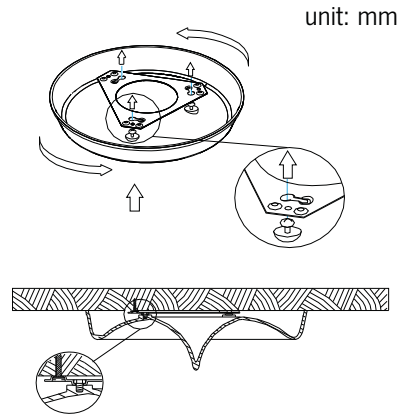
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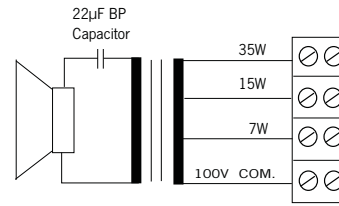
### Dimensions & Transformer Detail



Pendant Hung



Flush Mounting



Circuit Diagram

### Specifications

#### Electrical

Power taps:	7, 15, 35W
SPL 1W @ 1m:	92dB @ 1kHz (+/- 2dB)
SPL full power @ 1m:	107dB @ 1kHz (+/- 2dB)
Frequency response:	80Hz-17kHz
Transformer impedance:	285Ω / 667Ω / 1.43kΩ
Dispersion:	180° vertical, 360° horizontal
Directivity Q factor, 1kHz	2φ
Connection:	Multi-way screw terminal block

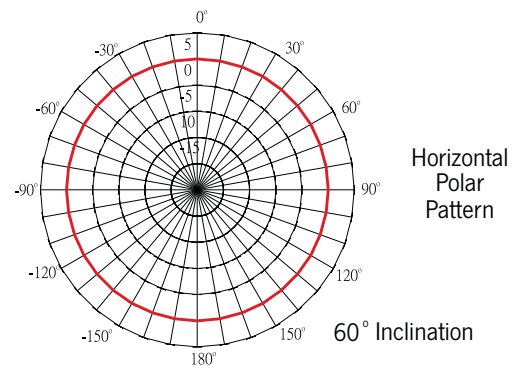
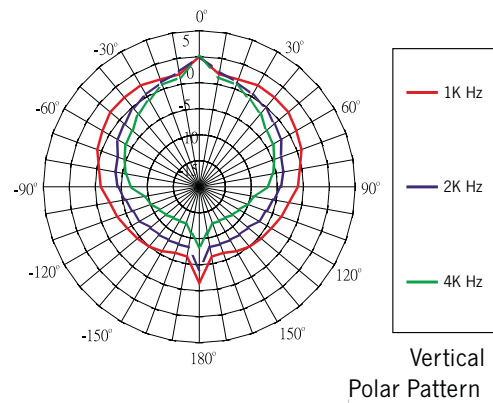
#### Mechanical

Driver construction:	Paper twin cone
Housing construction:	Structural polystyrene
Dimensions:	320 x 380mm
Overall weight:	3.95kg

### Additional Installation Accessories

**C 1075** Flush mounting bracket

### Polar Plots



### Response Graphs

