C 0705 Surface Mount EWIS Ceiling Speaker

✓ Excellent speech intelligibility.

✓ Engineered to meet Australian Standard AS1670.4.

✓ High quality speaker driver developed for BGM, paging and emergency warning applications.

✓ Fitted with 4 way wire protect terminal block for loop in, loop out wiring as required by Australian Standards.

✓ Fitted with cable restraint plate and transformer safety cover as required by Australian Standards.

✓ Fitted with supervisory capacitor for line monitoring.

✓ Steel boxed enclosure

✓ Australian assembled

Application

The C 0705 is a PA speaker designed for EWIS (fire & evacuation) installations. The industrial powdercoated steel box is designed to mount directly to the underside of concrete slabs or inaccessible ceilings. It is ideal for use in plant rooms, factory units, warehouses etc.

Emergency Warning & Intercommunications Systems (EWIS)

This speaker and transformer combination is designed for both paging announcements and emergency tones in EWIS systems.

Speakers employed in an EWIS installation must comply to AS1670.4. This dictates that the speakers must be fitted with transformer safety cover, line monitoring capacitor and 4 way wire protect terminal connection.

These Redback EWIS speakers comply to this standard.

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 critical for emergency paging applications.

Each transformer is fitted with multiple power settings which are user selectable via taps on the transformer.

Installation Guidelines

The housing is surface mounted using 4 screw fixings.

The neutral white RAL colour of C 0705 provides an architecturally unobtrusive finish to virtually any installation.

The C 0705 is fitted with a 4 way wire protect screw terminal block. This is suitable for loop in, loop out cabling. The cable can be secured to the in-built restraint plate with 100mm cable ties.

Manufacturing & Performance

Redback® drivers are engineered and manufactured to stringent specifications ensuring maximum reliability under all operating conditions. Each driver has a power rating well above the max tapping of the transformer, ensuring reliable operation and excellent longevity. A strict quality control procedure is employed during every step of the manufacturing process. Finally, every finished speaker is 100% QC checked prior to shipping.

Product Guide

C 0705 Surface Mount 100mm (4") 100V 5W Twin Cone Ceiling Speaker

REDBACK®

Dimensions & Transformer Detail

22µF BP Capacitor

Power tap shown selected to factory default setting.
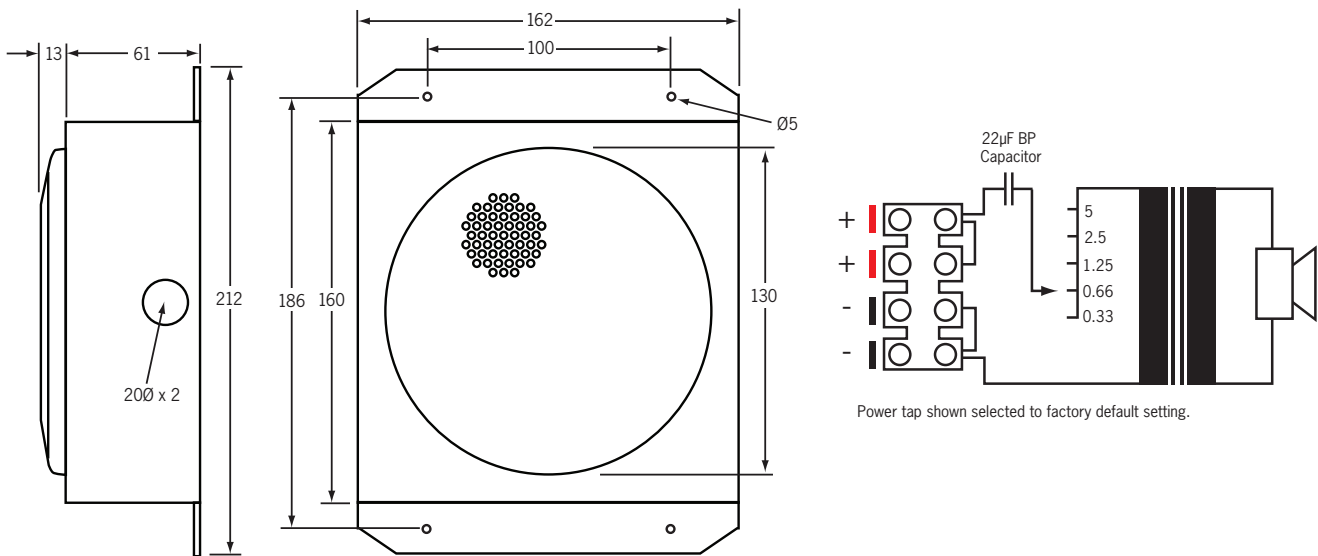
Specifications

Electrical

Power taps:	0.33, 0.66, 1.25, 2.5, 5W
SPL 1W @ 1m:	92.6dB @ 1kHz (+/- 2dB)
Frequency response:	100Hz-15kHz
Connection:	4 way terminal block + 22uF bipolar capacitor

Mechanical

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Enclosure material:	Steel (powdercoated white)
Driver construction:	Paper twin cone
Overall weight:	1.25kg
Colour:	White

Environmental

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Operating temperature:	-25°C to +55°C
Relative humidity:	< 95%

Architect Specifications

The surface mount speaker shall be of 100mm diameter and be low profile fitted with a 100V transformer with power taps of 5W, 2.5W, 1.25W, 0.66W and 0.33W. It shall have a SPL of 92.6dB (1W@1m). The transformer shall have a safety cover and cable restraint mechanism (conforming to the relevant Australian standard). It shall be fitted with a 4 way wire protect terminal block for connection and 22uf bipolar capacitor for line monitoring. The speaker body shall be made of steel with a neutral white powder-coated finish. The speaker body shall be provided with knockouts for conduit entry. The speaker shall be a Redback model C 0705.

Frequency Response (SPL 1W @ 1m)
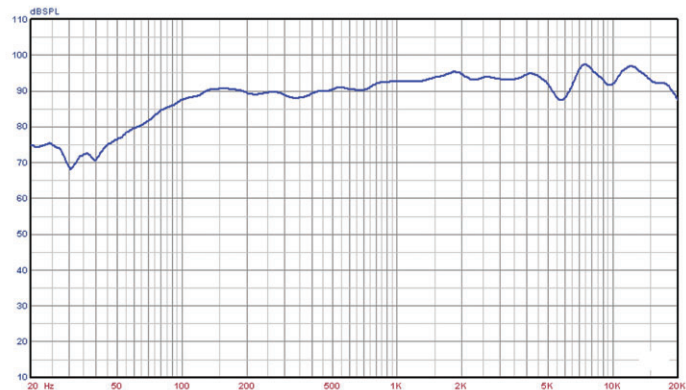
Polar Plot (Ratio vs Angle)
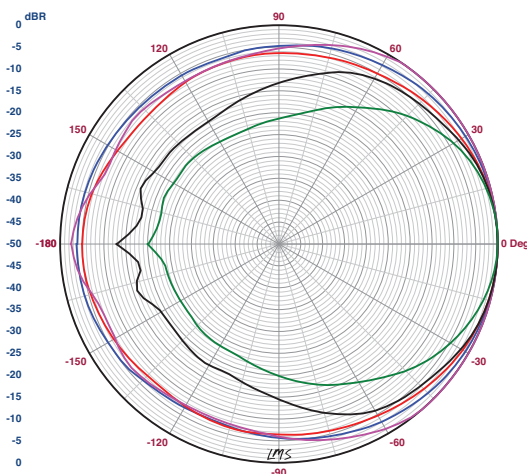
	500Hz	1kHz	2kHz	4kHz	6kHz
SPL 1W @ 1m (dB)	90.4	92.6	94.6	94.6	95.7
Beam Width (BW)	273	153	185	116	69
Q-Factor	1.3	2.4	1.9	3.1	5.2
Directivity Index (DI)	1.2	3.7	2.9	4.9	7.2