

Product Guide**C 1522** 20W 100V Line IP65 Bi-Directional Sound Projector

C 1522 20W 100V Line IP65 Bi-Directional Sound Projector

- ✓ Extruded aluminium enclosure with industrial powdercoating.
- ✓ Dual 10 watt weather resistant twin cone drivers.
- ✓ Aluminium grille & bracket
- ✓ Exceptional music and speech reproduction
- ✓ Selectable power taps
- ✓ Uses a high efficiency driver and line transformer
- ✓ Suitable for indoor or outdoor use
- ✓ Includes 5-core cable for easy power tap selection
- ✓ Fitted with supervisory capacitor for line monitoring.



Application

This Redback® bi-directional speaker is manufactured from a heavy duty aluminium extrusion. It is fitted with two high efficiency 5" speaker drivers offering exceptional speech intelligibility. Housing & grille are finished in industrial grade white powdercoat, while each speaker cone is treated to withstand moisture. Applications include train stations, airports, carpark, schools, office corridors etc. Fitted with 22µF capacitor for line monitoring.

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 tapplings which are selected via multi-core cabling.

Installation Guidelines



A low profile aluminium mounting bracket is fitted to the housing. This is constructed from two interlocking pieces which slide together. The speaker is then secured with an allen key grub screw. The bracket protrudes only 10mm from the top of the speaker enclosure, ensuring a low profile fitting on any surface.

The C 1522 is a 100V line horn speaker designed for direct connection to a commercial amplifier with 100V output. It is fitted with a 300mm seven core cable. Each coloured cable core is connected to a power tap on the transformer. Selection is made by connecting between common and the required power tap cores.

The speaker is supplied with an aluminium bracket and grille ensuring rust-free performance even in harsh environments.

The neutral grey RAL9016 colour of C 1522 provides an architecturally unobtrusive finish to virtually any installation.

Testing

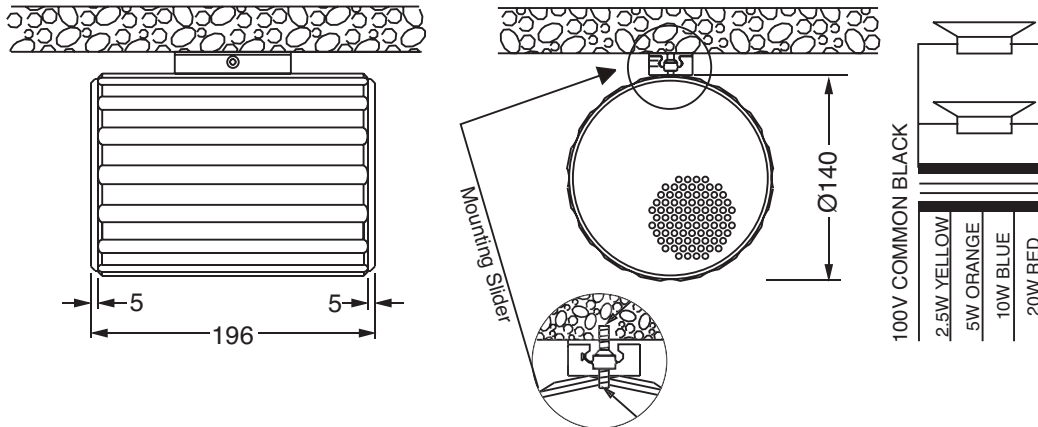
Redback® drivers are subject to strenuous factory testing reducing the risk of unit failure or performance reduction over time. Each driver has a power rating well above the max tapping of the transformer, ensuring reliable operation and excellent longevity.

Product Guide

C 1522 20W 100V Line IP65 Bi-Directional Sound Projector



Dimensions & Transformer Detail



Redback® High Performance Horn Speakers

Specifications

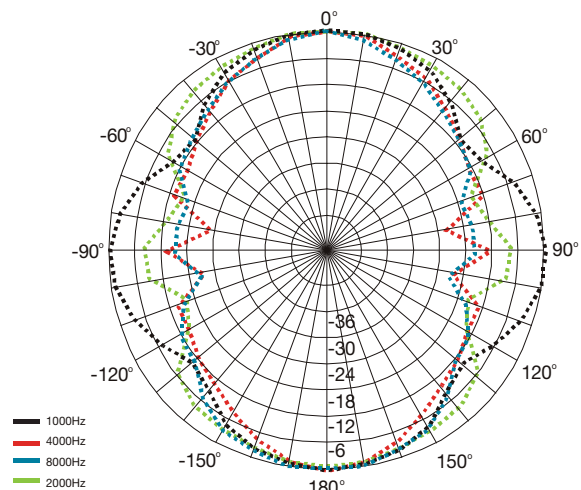
Electrical

Power taps:	2.5, 5, 10 & 20W
SPL 1W @ 1m:	92dB @ 1kHz (+/- 2dB)
SPL full power @ 1m:	105dB @ 1kHz (+/- 2dB)
Frequency response:	120Hz - 18kHz
Transformer impedance:	500Ω/1kΩ/2kΩ/4kΩ
Dispersion at 1k/2kHz:	160°/120° (each direction)
Directivity Axial Q factor, 1k/2kHz:	2.2/2.8 (each direction)
Connection:	Multi-core cabling

Mechanical

Driver construction:	Twin cone driver with coated cone
Housing construction:	Extruded aluminium
Grille material:	Aluminium
Dimensions:	1400 x 200D
Overall weight:	3.1kg

Polar Plot



Architect Specifications

The unit shall be the Redback® model C 1522 or equal and approved. The speaker enclosure shall be constructed of high grade extruded aluminium with mesh grilles, epoxy coated to match the enclosure. The unit will be sealed. Mounting will be via a sliding two-part lockable aluminium bracket. The speaker assembly shall comprise of 2 x 130mm dual cone loudspeakers.

A maximum of 10watts per speaker (2 x 10watts) will be required. A 10watt / 100 volt line, factory fitted transformer shall provide 3dB power tappings to each driver.

Connection will be provided by a factory fitted, five core cable tail providing transformer tapping selection.

The loudspeakers shall have a wide dispersion. The cones shall be high compliance units with a smooth extended frequency response.

Response Graph

