DATA SHEET
Qt® EMITTER
SOUND MASKING EMITTER

MODEL NUMBER: E-A-W (WHITE), E-A-B (BLACK)



Qt® Emitters are the backbone of the Cambridge Qt® X sound masking system. Qt Emitters are wide dispersion (nearly 180 degrees) direct field devices with 1.25” (3.17 cm) drivers and are smaller than a coffee mug. Emitters have DIP switches that allow their volume to be reduced 9 dB in 3 dB decrements. Emitters deliver four uncorrelated audio channels, automatically eliminating phasing. Emitters are plenum-rated, ETL listed, and comply with UL 2043. Each Emitter comes standard with a slip-ring mount for acoustical tile mounting. These features, along with plug and play installation and easy configuration capability, make Cambridge Qt® X systems the most intelligently engineered and most effective sound masking systems on the market today.

FEATURES

- Wide dispersion direct field speakers with 1.25” (3.17 cm) drivers
- Small driver size results in nearly 180° dispersion of direct field sound masking
- Reduces acoustical interference by using four uncorrelated channels
- DIP switches attenuate the volume level up to 9 dB in 3 dB decrements for easy micro-zoning
- Plug and play installation and easy configuration
- Comes standard with slip ring for acoustical tile mounting
- CE marked, ETL listed, and RoHS compliant
- Met Works with WELL licensing criteria for sound masking
- Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces
- Covered by Biamp Systems’ five-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The emitter shall consist of a single 1.25” (3.17 cm) full range driver installed in a sealed airtight enclosure. The enclosure and grille shall be one piece with material meeting UL Standard 2043 requirements for heat and smoke release in accordance with the provisions of the following codes: National Electric Code, NFPA 70; International Mechanical Code, NFPA 5000; Standard for the Installation of Air Conditioning and Ventilating Systems, and NFPA 90A. Patented internal wiring between the RJ45 connectors shifts pairs by one so that emitters naturally sequence between 4 mutually non-coherent sound masking generators to eliminate phase cancellation between drivers. This allows for up to 60 emitters to be driven by one standard RJ45 CAT cable between emitters. Input and output receptacles shall be standard RJ-45 quick connect network type with positive locking. A twist-and-lock mounting ring shall be provided for quick and secure mounting in ceiling materials. The enclosure shall provide a secondary attachment for a security cable where required by local authorities. Warranty shall be 5 years. The emitter shall be a Qt® Emitter.

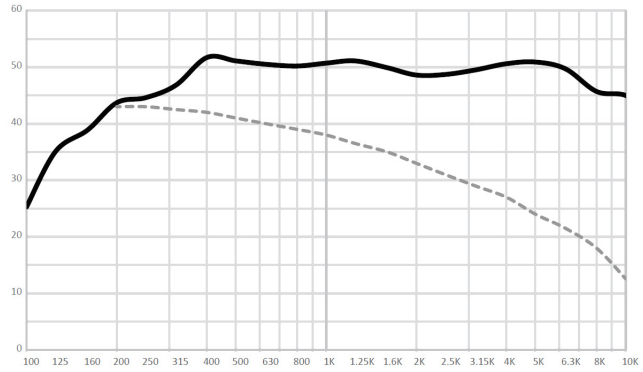
Drawings and product details are for information and/or illustrative purposes only, and may vary. Please contact your local Memtech representative for the most current product information.

Qt EMITTER SPECIFICATIONS

Emitter Type:	Passive with transformer
Frequency Response[1]:	
Sound Masking:	200Hz to 6.3kHz
Music/Paging:	200Hz to 10kHz
SPL[1]:	
Minimum Masking SPL (@ 1m):	30dBA
Maximum Masking SPL (@ 1m):	57dBA
Maximum Music/Paging SPL (@ 1m):	56dBA
Nominal Impedance:	3.6 kΩ
Nominal Dispersion:	170° conical / half space
Channel Selection:	4 Auto-Sequencing and Repeating Channels
Selectable Attenuation:	0 dB, -3 dB, -6 dB, -9 dB
I/O Connectors:	2 RJ-45 connectors
Cabling:	Category UTP Cabling (8 conductor)
Maximum Power Consumption:	.02 W
Driver Diameter:	1.25" (32mm)
Enclosure:	Sealed
Color:	White
Product Dimensions	
Overall Diameter:	3.25 inches (83mm)
Depth:	2.5 inches (64mm)
Weight:	5.6 oz. (159g)
Installation Cutout Diameter:	2.68 inches (68mm)
Included Accessories:	Acoustic Ceiling Tile Mounting Ring UTP Cable (16ft/30ft)
Compliance:	ETL listed (USA and Canada) CE Marked (Europe) RoHS Directive (Europe) Evaluated to the requirements of UL 1480a and UL 2043 and is suitable for use in air handling spaces

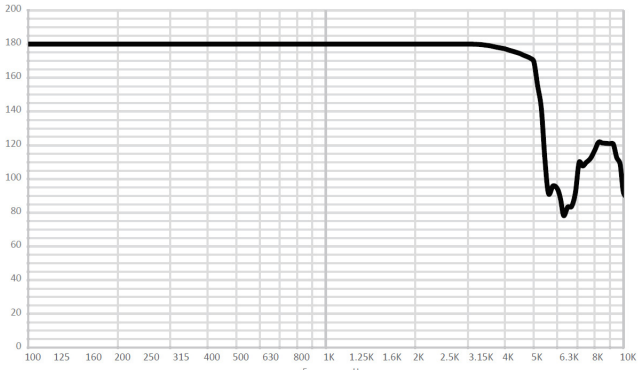
[1] Specifications based on emitter array using published layout practices in conjunction with Qt Control Processor.

FREQUENCY RESPONSE (dB SPL)



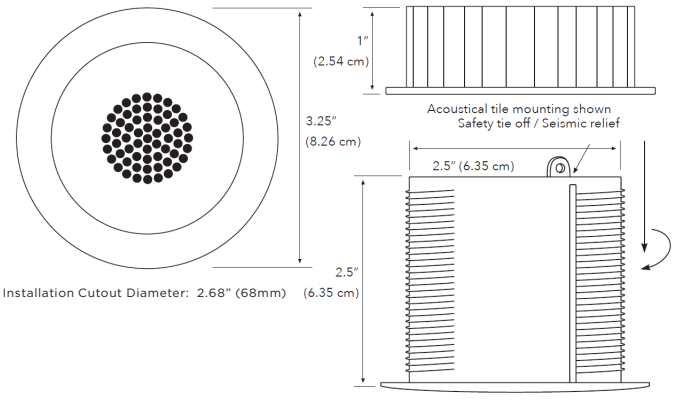
Frequency (Hz)

BEAMWIDTH (Degrees)



Frequency (Hz)

DIMENSIONS



OPTIONAL ACCESSORIES

Description	SKU
Universal Bracket	UB-(B = Black / W = White)
Drywall Mount	DM
Beam Bracket	BB-(B = Black / W = White)
Drywall Conduit Mount	CM
Plenum Back Can	PB
Emitter Cap (Black)	EC-B
Emiiter Cap (White)	EC-W
Room Control	QT-RC2

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