





252 [9.92"] 60 [2.36"] 2-ø20.5 [ø0.81"] (knockout hole -0-0 Top View 0.94"] Ø20.5 [Ø0.81"] 310 [12.2"] 24 .2 [3.43"] 0.39" [7.48"] 5 [0.2" Front View ർ 5 190 5 [0.94"] 24 10 [0.39" *Since no mounting screws are supplied with the speaker, separately prepare them appropriate for the construction of wall and its thickness. 286 [11.26"] 60.2 [2.37"] Dimension for fixing hole A (scale: 1/2) 2-ø20.5 [ø0.81"] Side View 115 (knockout hole [4.53"] 83.5 [3.29"] 4-ø4.5 [ø0.18"] BS-680U 5.91" 7.48" [1.97" 175±3 [6.89*±0 50 Q [1.42"] [1.97"] .36" 260±3 2-5.5×10 36 [1.42"] 36 50 [60 [2.36"] (310 [12.2"]) 4-3.5×6.5 [0.14"×0.26"]* Rear View Mounting hole dimensional diagram HOT(black) 5 kΩ transformer Bridging terminal 1.67 kΩ Input onnecto 830 C HO <u>650 Ω</u> Wiring Diagram 얧 210 Ω

105 Ω

COM(white)

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DESCRIPTION

The BS-680U speaker has a strong, all-metal body, and are ideally suited for voice alarm system applications. 6" double cone speaker unit ensures high-quality sound. The BS-680U is certified to UL 1480 UUMW (Mass Notification System) and ULC-S541 standards. The speaker can be quickly and easily installed in either a horizontal or a vertical orientation. Either concealed in-wall wiring or exposed wiring can be used for speaker cable connection. A push-in type input connector allows easy cable connections and bridge wiring. The selectable input impedance can be easily adjusted by changing the top position of the unit's transformer. Both flush-mounting and surface-mounting are possible. The innovative structural design is based on the Golden Ratio (1: 1.618), and also permits direct wall installation with screws, making the speaker unit resistant to falling even if outward force is applied to it.

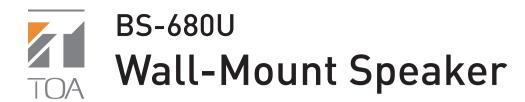
FEATURES

- Innovative design based on the Golden Ratio (1:1.618)
- Certified to function as a Fire Alarm Signaling Speaker
- UL 1480 UUMW and ULC-S541 listed.
- · Quick and easy installation
- Strong all-metal body
- Horizontal / vertical installation
- Flush- / Surface-mounting

SPECIFICATIONS

Rated Input	6 W
Rated Impedance	70 V line: 830 Ω(6 W), 1.67 kΩ(3 W), 5k Ω(1 W)
	25 V line: 105 Ω(6 W), 210 Ω(3 W), 650 Ω(1 W)
Sensitivity	94 dB (1 W, 1 m)(500 Hz - 5k Hz, pink noise)
Frequency Response	150 Hz - 20k Hz (peak -20 dB)
Speaker Component	6" double cone-type
UL Code	UL 1480 UUMW, ULC-S541
Applicable Cable	Solid copper wire: Ø0.8 - Ø2.0 mm (AWG 20 -12)
	Stranded copper wire: 0.5 - 2.0 mm ² (AWG 20 - 14)
Connection	Push-in connector (bridging terminal)
Operating	14 °F to 122 °F (-10 °C to +50 °C)
Temperature	
Finish	Baffle, Cabinet: Steel plate, white(RAL 9010 equivalent),
	powder coating
	Grille: Surface-treated steel plate mesh, white(RAL
	9010 equivalent), paint
Dimensions	12.2" x 7.48" x 3.43" (310 x 190 x 87.2 mm)
(W x H x D)	
Weight	5.73 lbs. (2.6 kg)
Accessory	2 x Rubber gommet, 4 x Speaker mounting screw(4 x
	16), 1 sheet x Sponge tape (2 pieces)

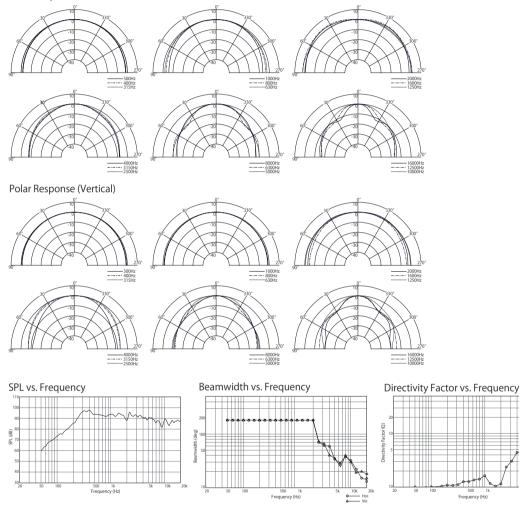
APPEARANCE AND DIMENSIONAL DIAGRAM





CHARACTERISTIC DIAGRAMS

Polar Response (Horizontal)



ARCHITECT'S & ENGINEER'S SPECIFICATIONS

The speaker shall be a 6" double cone-type box speaker suitable for wall mounting. Cable connection shall be by means of a push-in connector bridging terminal. The speaker shall be able to be quickly and easily installed in either a horizontal or a vertical orientation. Both flush and surface mounting shall be possible.

The speaker shall include a transformer having multiple taps (6W, 3W and 1W at 70V/25V line) adjustable. The sensitivity at a distance of 1m with a 1W input level applied shall be 94dB. The speaker shall have a frequency response of 150Hz - 20kHz (-20dB).

The speaker baffle and cabinet shall be constructed of steel plate. The grille shall be surface-treated steel plate mesh. The speaker shall be available in white color (RAL9010 equivalent). The unit shall have dimensions of 12.2"(W) \times 7.48" (H)× 3.43" (D) (310 \times 190 \times 87.2 mm), and a weight of 5.73 lbs (2.6 kg).

The speaker shall be certified to UL 1480 UUMW and ULC-S541 standards, ideally suited for voice alarm system solution.

The speaker shall be the TOA model BS-680U.

The specifications are subject to change without notice

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