

## **F-SERIES**

Wide Dispersion Ceiling Speaker











**Expanded coverage area** through extra-wide dispersion characteristics.

# F-1522SCEN / F-2352SCEN / F-2322CEN / F-2352CEN / F-2852CEN

### Wide Dispersion Ceiling Speaker

Most noticeable has always been the high-frequency roll-off of standard speakers that resulted from limited speaker dispersion characteristics. The F-Series provides well-balanced audio reproduction without treble attenuation over an expanded listening area thanks to the extra-wide dispersion characteristics that are part of the overall speaker design. Perceived speaker directionality and beaming tendencies are minimised, resulting in a natural, well-balanced sound over a wide area at all levels. Conventional ceiling speakers exhibit high frequency roll-off characteristics as the distance between ceiling speaker and listener increases. An ideal ceiling-mounted speaker's response characteristics should include wide dispersion and non-frequency dependent directionality and this ceiling speaker series proves that. Now all F-series models listed here are EN54-24 certified.

#### **COMMON FEATURES**

#### Easy and quick installation

Input selector switch permits easy verification and change of current impedance settings, even after installation

#### **F-2352SCEN**

- 2-way wide range speaker
- ▼ 154 mm mounting depth
- Diffuser for wide dispersion of high frequencies

#### **F-1522SCEN**

- Cost-effective full range speaker
- ▼ 117 mm mounting depth
- Flat front panel

#### F-2352CEN

- 2-way speaker
- High power
- Overload protection
- Heat-resistant back can
- Diffuser for wide dispersion of high frequencies

#### F-2322CEN

- 30W full range speaker
- High power
- Heat-resistant back can
- Flat front panel

#### F-2852CEN

- 2-way speaker
- High power
- Overload protection
- Heat-resistant back can
- Diffuser for wide dispersion of high frequencies

#### **Specifications**

	F-1522SCEN	F-2352SCEN	F-2322CEN	F-2352CEN	F-2852CEN
Coverage angle (2/4/8 kHz)	180° / 100° / 80°	180° / 180° / 60°	180° / 110° / 60°	180° / 105° / 170°	90° / 100° / 110°
Rated Input	6W (100V)		30W (100V)		60W (100V)
Power Handling Capacity	Continuous pink noise: 9 W (8 Ω), Continuous program: 18 W (8 Ω)	Continuous pink noise: 9 W (8 Ω), Continuous program: 18 W (8 Ω)	Continuous pink noise: 60 W (8 Ω) Continuous program: 120 W (8 Ω)		Continuous pink noise: 90 W (8 Ω), Continuous program: 180 W (8 Ω))
Tappings	6/3W (100V), 6/3/ 1.5W (70V)	6/3/1/0.5W (100V), 6/3/1.5/0.5/0.25W (70V), 8Ω	30 / 10 / 3 / 1 W (100V), 30 / 15 / 5 / 1.5 / 0.5 W (70V), 8Ω		60 / 30 / 15 / 3W (100 V), 60 / 30 / 15 / 7.5 / 1.5 W (70 V), 8Ω
Sensitivity (1 W, 1 m)	88dB	89dB	90 dB		91 dB
Frequency Response	65 Hz – 18 kHz	80Hz - 20kHz	70 Hz – 20 kHz		60 Hz - 20 kHz
Mounting Hole Diameter	135mm	200mm		250mm	
Speaker Component	10 cm cone-type	Low: 12 cm cone-type, High: Balanced dome-type	12 cm cone-type	Low: 12 cm cone-type, High: Balanced dome-type	Low: 16cm cone-type, High: Dome-type
Finish	Baffle: Fire-resistant ABS resin, black / Rim: Fire-resistant ABS resin, white / Punched net: Steel plate, white, paint / Dust proof bag: Artificial fiber, black		Enclosure: Steel plate, plating / Baffle: Fire-resistant ABS resin, black / Rim: Fire-resistant ABS resin, white / Punched net: Steel plate, white, paint	Enclosure: Steel plate, plating / Baffle: Fire-resistant ABS resin, black / Rim: Fire-resistant ABS resin, white / Punched net: Steel plate, white, paint	
Dimensions (ø x D)	155 x 117 mm	230 x 154mm	230 x 200mm	230 x 229mm	280 x 227 mm
Weight	1kg	1.5 kg	3.7kg		5.1kg

#### **TOA Electronics Europe GmbH**

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