

## DSP7154 DSP7166 DSP7181

### 40W 5" / 60W 6" / 100W 8" Coaxial Commercial In-ceiling Speaker with Power Tap



#### Description

The DSP7154 / DSP7166 / DSP7181 Coaxial Commercial In-ceiling Speaker with Power Tap is designed for professional background music and public address systems. Featuring a coaxial driver structure with dedicated woofer and tweeter integration, it delivers clear, balanced, and detailed sound reproduction across different power levels and installation environments.

The series supports both 8Ω low-impedance and 100V constant voltage systems, with built-in power tap selection for flexible system configuration. Its rear enclosure design enhances low-frequency performance, while the front-access terminal structure simplifies installation and wiring in commercial projects.

#### Features

- Coaxial driver design with full-range woofer and dedicated tweeter for improved sound clarity and separation.
- Available in 40W (5"), 60W (6"), and 100W (8") power options for different space requirements.
- Supports both 8Ω low-impedance and 100V constant voltage distributed audio systems.
- Built-in power tap selector for flexible wattage adjustment in system design.
- Rear enclosure structure enhances bass response and overall acoustic performance.
- Wide frequency response tailored for speech intelligibility and background music playback.
- High-efficiency sensitivity design ensures stable output in commercial PA applications.
- Front-access terminal design for simplified installation and maintenance.
- Durable metal grille construction for long-term architectural integration.

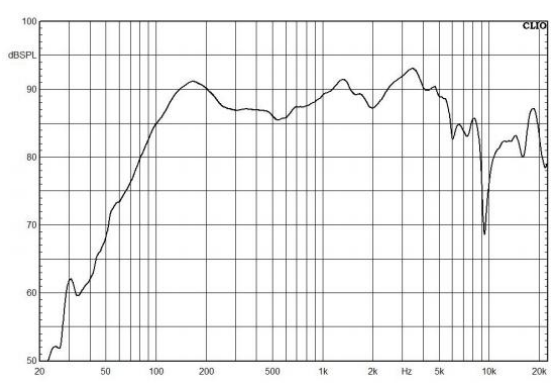
# Specifications

Model		DSP7154	DSP7166	DSP7181
Drive Units	Full-range	5"x1	6"x1	8"x1
	Tweeter	1"x1	1.5"x1	1.5"x1
Rated Power (RMS)		40W	60W	100W
Power Adjustment	100V	40W-20W-10W-5W-2.5W	60W-30W-15W-7.5W-3.75W	100W-50W-25W-12W-6W
	8Ω	40W	60W	100W
Freq. Response		80Hz-20KHz	75Hz-19KHz	70Hz-20KHz
Sensitivity		87dB	90dB	92dB
Maximum SPL		103dB	108dB	112dB
Dimension(Diameter*Height)		235mm×135mm	271mm×150mm	334mm×178mm
Cutout Dimension		205mm	238mm	294mm
Input Connector		4-Pin Phoenix Terminal		
Grille Type		Metal Grille		

## Product Information

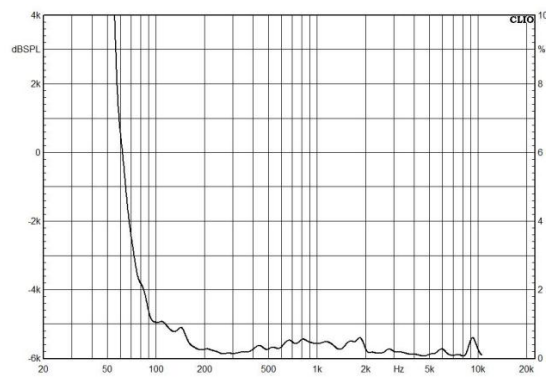
### DSP7154 5" 40W Coaxial Ceiling Speaker

**Frequency Response**  
(dB SPL, 1W, 1m)



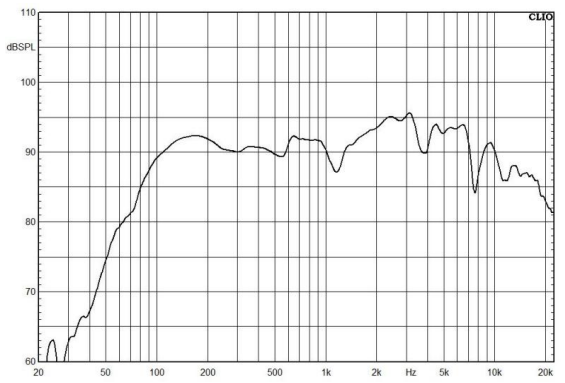
**Distortion**

(THD < 1.5% 1W, 1m, 100Hz-10kHz)



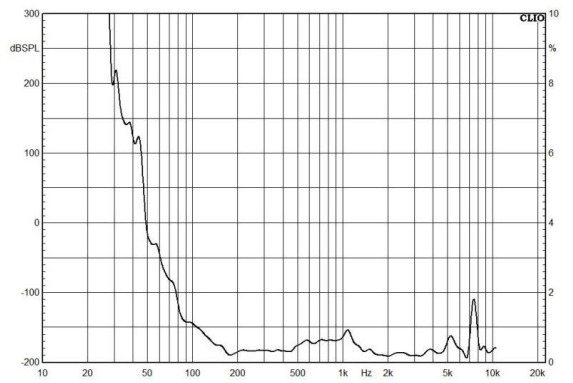
### DSP7166 6" 60W Coaxial Ceiling Speaker

**Frequency Response**  
(dB SPL, 1W, 1m)



**Distortion**

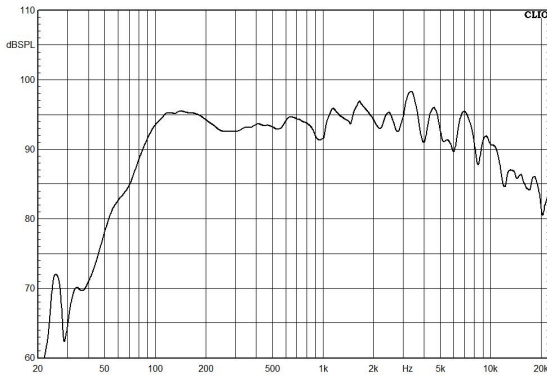
(THD < 1.5% 1W, 1m, 100Hz-10kHz)



## DSP7181 8" 100W Coaxial Ceiling Speaker

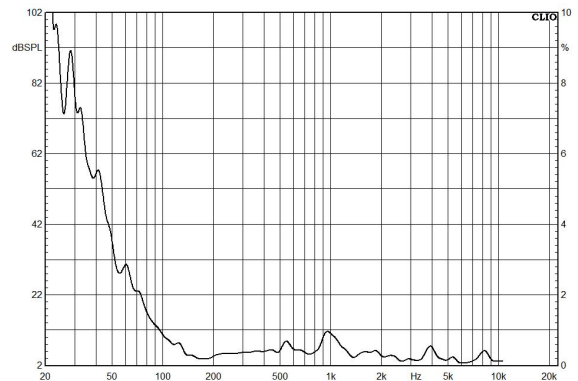
### Frequency Response

(dB SPL, 1W, 1m)



### Distortion

(THD < 1.5% 1W, 1m, 100Hz-10kHz)



## Installation

1. Before installation, ensure the ceiling thickness is not less than 10mm, not more than 30mm, and the internal height (depth) is not less than 200mm.(Figure ①)
2. Insert the speaker through the cut-out hole and onto the bridge plate. Ensure the anchor bolt engages with the bridge plate before loosening the speaker's handles. (Figure ②)
3. Disconnect the terminal connectors, wire the speaker, then re-insert the connectors into the speaker terminals. (Figure ③)
4. Tighten the anchor arm screws to secure the speaker. If using a power drill, set it to a low torque setting. (Note: Over-tightening the screws may damage the anchor post mounting points or the ceiling, creating a risk of the speaker falling.) (Figure ④)

