



8" 2-Way In-Ceiling Coaxial Infinite Baffle Loudspeaker

FIT654FL

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6. 5 2-Way, In-Ceiling, Coaxial, Infinite Baffle Loudspeaker The easy to install FIT654FL is a full-range ceiling loudspeaker with Focused Image Technology. It incorporates an ultra light Carbon Fiber woofer with a butyl rubber surround and the diffraction-less ceramic coated aluminum dome pivoting Ferrofluid cooled tweeter. The FastLoc grill patent no. 8,422,722, is a feature found only at Current Audio. Our design has allowed for the smallest exposed plastic bezel in the industry, truly making it disappear into the mounting surface. The FastLoc grill's unique patent pending mechanism allows for a quick installation and removal of the grill while securely fastening it in place to all types of mounting surfaces. Due to the unique design the grill will conform to uneven surfaces including popcorn, heavy textured and uneven ceilings. While our competitors have chosen to utilize magnets in their designs thus requiring the use of a steel grill that will rust our design allows us to use corrosion and rust resistant aluminum. The FIT series speakers additionally incorporate the unique Patent Pending Three Dimensional Positioning (3-DP) woofer. This design allows the user to separately adjust the angle, tilt and rotation of the woofer so you can direct the sound where you want it, not where you install it. The Positive Position Lock system (PPL) uses two screws on either side of the woofer that pull the back plane tight and locks the position in place. The Infinite Baffle design makes it the ideal choice for typical applications in open beam attic or enclosed ceilings. Driver Material: Woven Carbon Fiber Without a doubt this is my favorite material. Woven carbon fiber is used in aerospace and Formula 1 race cars. Five years of research through trial and error has resulted in a superior state of the art material. Woven carbon fiber has a very low moving mass. The lowest moving mass of any cone material. It also has the highest stiffness of any of the materials available. The ideal driver cone has no moving mass is stiff to allow a perfectly linear, pistonic movement of the driver cone / voice coil assembly. The midrange articulation is amazing with this material. Neutral, uncolored midrange. One of toughest challenge in midrange performance is reproduction of a female vocal. You listen to this driver versus other materials and manufactures you can really hear the difference. The woven carbon fiber allows for extremely detailed vocals. There are no "muddy" overtones. The other outstanding characteristic is transient response. The speed at which a driver cone can move forward and backwards in a linear fashion. Low moving mass allows for the driver cone to react quickly while the stiffness of the cone allows for a linear motion that won't allow for distortion in the low frequency range. This gets rid of the boomy bass or muddy bass associated with inferior designs. Many manufacturers try to get more bass by using loose and floppy mechanical suspension instead of using high stiffness low mass assemblies. Tweeter Material: Ceramic Coated Aluminum Dome Tweeter We take our 2 series aluminum dome tweeter material and add a sputtered ceramic coating to the dome. The sputtering process is a coating of ceramic at a molecular level. It is not "painted on" or dipped in ceramic. If it were, the coating would be too thick, too heavy and inconsistent. Our ceramic coating imparts a stiffness on the center of the dome to prevent high frequency distortion caused by dome deformation at high power levels in high frequencies. We make adjustments in the voice coil materials to offset the small additional mass that the ceramic coating adds. This allows for the efficiency of the tweeter to be maintained and the high frequencies to be extended.

Driver 6.5" Injection Molded Carbon Fiber Cone with Butyl Rubber Surround Driver Pivoting Angle 25° per side Tweeter Patent Pending Pivoting, Defraction-less 1" (25mm) Aluminum Ferrofluid Cooled Dome Tweeter Pivoting Angle 18° per side Crossover 3 position EQ switches for Driver and Tweeter adjustments, gold press terminals Grill specification Perforated Aluminum with Scrim Cloth Frequency Response 40Hz - 20kHz Impedance (nominal) 8,6 or 4 ohms depending on equalizer switch Power Handling 5 - 125 Watts SPL 90 dB 1W/1m Diameter x Depth 9 3/8" (237mm) x 5 5/8" (144mm) Retrofit Cutout Diameter 8 3/8" (213mm) Grille Diameter 10 7/8 (276mm) Standard Pair Pack Dimensions (weight) 11 3/8 x 11 1/4 x 11 5/8 (6 lbs)