

ATC 5054 TAPERED LINE ARRAY SPEAKER SYSTEM

AUDIO TELEX

DATA SHEET



The Audio Telex type Tapered Line Array ATC 5054 has been designed for use in applications which require both very high quality speech amplification and the playback or amplification of music with hi-fi like quality at moderate sound pressure levels without extreme low frequency content. Via sophisticated computer modelling techniques, the parameters of a passive electrical dividing network, and the aperiodic driver spacing were interactively optimised to give the Tapered Line Array a high degree of control for the vertical plane radiation pattern. To give good low frequency reproduction, without compromising efficiency, the system used a vented enclosure, designed using the Thiele Small routine.

As it is a directional device, it is well suited to environments which are fairly reverberant. If extreme frequencies are required the system Tapered Line Array should be crossed over to a subwoofer at around 150 Hz. The unit is designed to be operated from a 100 volt distribution system.

The 90's style profile of the Tapered Line Array, combined with the perforated metal grille and wood grained finish result in a very smart, hi tech appearance product.

SPECIFICATIONS:

SYSTEM TYPE	6 off 100mm drivers forming a line array are housed in a 2 vented enclosures, each tuned to 85 Hz. The radiation pattern in the vertical plane is controlled through the use of the aperiodic vertical spacing of the drivers and the passive electrical network which progressively transfers energy from the outer drivers to the inner drivers as the frequency increases. This results in the shortening of the acoustic length of the array at higher frequencies which is called tapering.		
FREQUENCY RESPONSE	Half space acoustic loading 100Hz to 10kHz \pm 3 dB 75Hz to 13kHz \pm 10 dB		
NOMINAL INPUT IMPEDANCE	100 ohms 200 ohms 400 ohms	100 watt tap 50 watt tap 25 watt tap	minimum 90 ohms at 3kHz
SENSITIVITY	95dB at 1 metre for 1 watt input i.e. 10 volts on 100 watt tap		
POWER HANDLING	Suitable for amplifiers of 300 watts output power with unclipped programme material above 80 Hz		
RADIATION PATTERN	Angles where the level is -6dB relative to on axis horizontal + 45 degrees vertical + 20 degrees		
DIMENSIONS	H 1050mm, W 204mm, D244mm		
WEIGHT	17kg including transformer		