

M55RP

PRINTED RIBBON MICROPHONE

- Patented RP (Regular Phase) System produces the sound of a condensor with the warmth of a ribbon and the durability of a dynamic.
- An extremely controlled cardioid pattern is achieved through the use of a unique bi-directional capsule.



This road-worthy vocal microphone produces less than 0.1% third harmonic distortion at 130dB SPL, and is not limited by internal pre-amplifiers. The low mass printed ribbon diaphragm approaches the mass of a condensor and offers the same, smooth, studio quality sound. Plus, the diaphragm is energized by a magnetic circuit, which makes it as rugged as the

best dynamics. The M55RP is designed to withstand the rigors of the road with shock-mount construction and extremely low handling noise. If you demand the same high quality studio performance on stage, demand the Fostex M55RP. The sound of a condensor with the warmth of a ribbon and the durability of a dynamic.

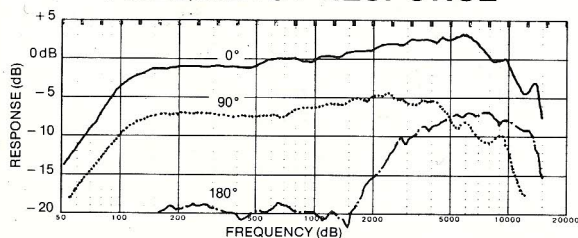
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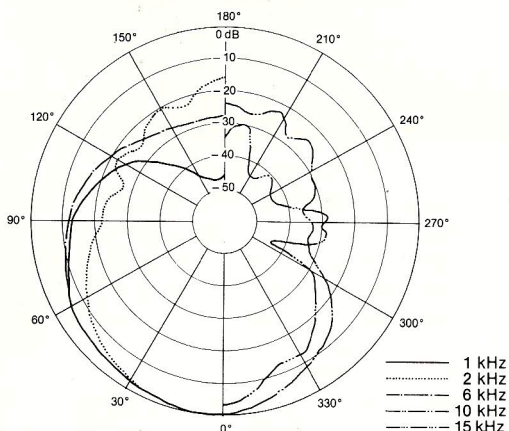
SPECIFICATIONS

Polar Pattern	Cardioid
Frequency Range (Hz)	70-18,000
Impedance (ohms)	250
Open circuit Voltage at 600 ohms (1.3 V/pa)	- 76
Output Level (dBm) (0dBm = 1mW/pa at 600 ohms)	- 56
EIA Microphone rating GM (dB)	- 148
Finish	Matt Gray or Black
Dimensions, dia. x length	50 x 167 mm (2 x 6.6 in.)
Net Weight	250 g (8.8 oz.)

FREQUENCY RESPONSE



POLAR RESPONSE



Fostex
Electro Acoustic Systems

THE TECHNOLOGY

Regular phase, or RP, is a surface driving system which actuates the whole surface of the diaphragm with the same phase, in true piston motion.

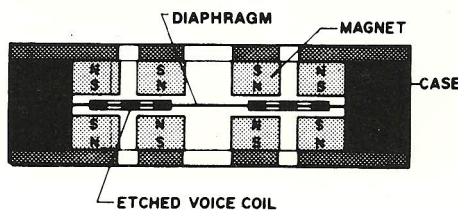
The Fostex RP system is so advanced, it is protected by fifteen pending patents. The system combines the merits of both electrostatic and dynamic type transducers to provide a family of microphones which exhibit extremely low distortion, excellent transient response and wide dynamic range while remaining durable and rugged.

Utilizing integrated circuit manufacturing techniques, a very fine aluminium ribbon wire coil is etched directly into the surface of an extremely thin polyester film diaphragm. This diaphragm is suspended in a very powerful magnetic field, formed of pairs of magnets with identical poles opposed. These methods result in dependability and stability never before found in a dynamic type microphone. Rare-earth, samarium-cobalt magnets are used to provide a magnetic strength ten times more powerful than that of ferrite. This, combined with the fact that the diaphragm/coil assembly is 80% lighter than a typical moving coil element, provides very high sensitivity, comparable to the best condenser microphones.

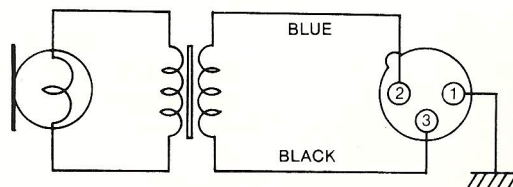
The unique suspension system and planar diaphragm exhibit an extremely low distortion characteristic, even at very high sound pressure levels.

Simplicity of design and impeccable construction techniques produce a microphone which is practically indestructible, and requires no maintenance or external power supply.

RP ELEMENT CUT-AWAY



SCHEMATIC



FOSTEX CORPORATION OF AMERICA

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