



PROGRAM VELOCITY MICROPHONE

TYPE SK-46

CATALOG

B.1022



FEATURES

- Bi-directional characteristics over wide frequency range
- Light weight, small in size
- Modern styling blends pleasingly with any background
- Adjustable impedance taps
- TV gray and satin chrome finish
- Swivel mounting
- Extremely rugged construction

USES

The RCA Type SK-46 Program Velocity Microphone is useful for AM, FM and TV studio or control room announcing. Its excellent response, directional characteristics and small size makes it a valuable and versatile instrument where quality production of sound is desired. The directional characteristics reduce unwanted acoustical background noise, reflections and feedback. This makes the microphone appropriate for "on stage", announce booth and general indoor programs. The microphone is not recommended for outdoor use because of the relative sensitivity of this type unit to wind.

DESCRIPTION

The SK-46 is a small light weight velocity microphone in which the moving element is a thin, corrugated metallic ribbon supported at the ends and placed between the

poles of two small powerful magnets in a magnetic circuit. Because of its light weight, the motion of the ribbon corresponds very closely to the velocity of the air particles; therefore, the voltage generated by it is a faithful reproduction of the sound waves that traverse it. The ribbon is connected to the primary winding of a small efficient transformer whose secondary winding matches either 150-250 ohms or high impedance, as required. The change in impedance is easily accomplished by changing one soldered connection inside the microphone. A swivel arrangement permits tilting the microphone back approximately 85°. Pleasing functional design incorporating excellent performance and rugged construction, attractively finished in TV gray and satin chrome, makes this microphone a welcome addition to any installation. A two conductor shielded cable permanently attached to the microphone is connected for low impedance operation as stocked.

SPECIFICATIONS

Electrical Specifications

Directional Characteristics	Bi-directional
Output Impedance.....	200 ohms and 15,000 ohms*
Effective Output Level at 1000 cycles/second:	
Low Impedance	-58 dbm
GM	-150 db
High Impedance.....	-60 db below 1 volt
Hum Pickup Level:†	
Low Impedance	-113 dbm
High Impedance.....	-94 db below 1 volt
Frequency Range.....	50 to 10,000 cycles/sec.
Output Voltage:	
Low Impedance.....	117 $\mu\text{v}/\text{dyne}/\text{cm}^2$
High Impedance.....	1020 $\mu\text{v}/\text{dyne}/\text{cm}^2$

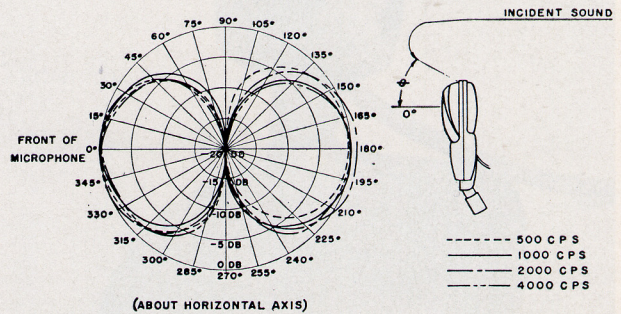
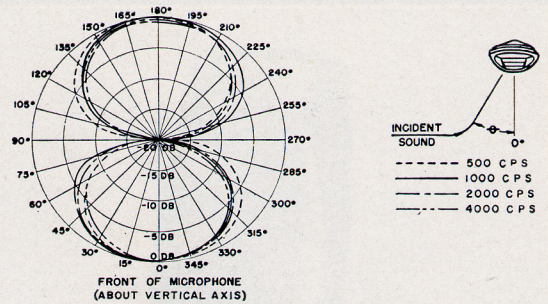
Mechanical Specifications

Mounting.....	$5/8$ -27 fixture thread
Dimensions:	
Height	$5 1/8$ "
Width	$1 29/32$ "
Depth	$1 3/8$ "
Finish.....	TV gray and satin chromium plated screen
Weight (less cable).....	13 ounces

Equipment Supplied

Type SK-46 Program Velocity Microphone, 25-foot cable (less plug) and Instructions (IB-24885).....MI-12046

* Stock with soldered connection to the 200 ohm tap.
 † Relative to field of 1×10^{-3} gauss.



Directional Characteristics of the SK-46 Velocity Microphone.

