

# SPECS

PEAVEY ELECTRONICS

## PVM™ 580i

### Unidirectional Hypercardioid Dynamic Microphone

#### SPECIFICATIONS

**Enclosure:**

PVM™ 580i

**Element Type:**

Dynamic

**Magnet Composition:**

Neodymium Iron Boron

**Polar Pattern:**

Hypercardioid

**Front to Back Rejection:**

20 dB typical

**Impedance:**

Low (300 ohms, balanced)

**Sensitivity:**

Output Power Level:

-52 dB (0 dB = 1 mW/10 microbar\*)

Open Circuit Voltage:

-68 dB (0 dB = 1 volt/dyne/cm<sup>2</sup>)

**Windscreen:**

Brazed steel mesh

**Pop Filter:**

Dual Integral, Open Cell Foam

**Connector:**

3-pin XLR type

**Phasing:**

Positive (inward) pressure on diaphragm produces positive voltage at pin #2

**Weight:**

14 oz. (400 grams)

**Furnished Accessories:**

Carrying case, swivel adaptor, foam windscreen, 25' (7.62 m) balanced low impedance cable with 3-pin and 3-socket XLR equivalent audio connectors

**FEATURES**

- Neodynamic design



- Hypercardioid polar response
- Titanium laminate diaphragm
- Neodymium magnetics
- Superior off axis rejection
- Superb feedback rejection
- Warm vocal response
- Tandem tuned electro-mechanical rumble filter dramatically reduces handling noise and mic stand clicks
- Ultra high sensitivity

**DESCRIPTION**

The PVM 580i neo-dynamic microphone is a unidirectional, hypercardioid, dynamic microphone that relies on the latest technologies in rare earth magnets, component design and

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finishing. Due to the success of the style of the PVM™ Series, the PVM™ 580i series looks like the previous PVM Series but that is where it stops. It kept the same style but is totally redesigned inside and out. First, a new shockmount system that utilizes a tandem tuned mechanical and electrical filter. The mechanical filter is tuned to resonate at frequencies well below the operating range of the microphone, allowing an electrical circuit to be employed to filter any mechanical signals produced while handling the microphone. The two tuned circuits give the microphone virtual silence while moving it around.

The rumble filter is designed using a specialized, high quality transformer, allowing it to work without degradation to the low frequency signals and maintaining true balanced, low impedance operation. Handling noise is virtually a thing of the past.

Next, a tougher finish and new feel is accomplished using the latest in material and coating technology, a machined, ultra-fine finished alloy handle is black hard coated. This process allows for accurate color control and the use of an alloy that makes for a lightweight feel in a durable package.

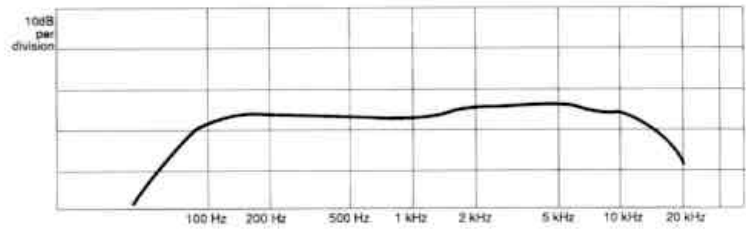
This process gives the microphone a finish that is literally part of the metal, making it scratch resistant. This finish is designed to keep the microphone looking as well as it performs through the years.

A neodymium iron boron magnet is the heart of the high output unit. The rare earth magnet allows for output expected only from condenser type microphones — but without the use of batteries or external power supplies.

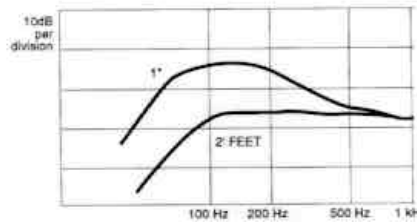
The PVM 580i delivers a warm vocal response that can be worked to cut through the high level stage environments. The hypercardioid response allows the PVM 580i to be used in high feedback environments and also makes it a great choice for instrument micing on stage.

The internal pop filter has been redesigned to give excellent protection against plosive sounds, "th" and "p." An external wind screen is supplied for cases where extreme wind conditions exist.

The unit comes in a durable, hard shell case and is supplied with a premium quality, 25', low impedance XLR type cable.

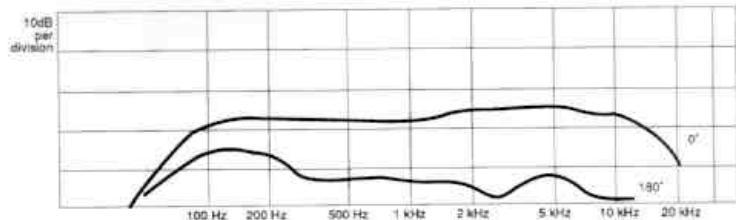


FREQUENCY RESPONSE



Proximity effect is a naturally occurring phenomenon in unidirectional microphones. The effect is to accentuate or boost the low frequency response. This effect is a function of distance from the diaphragm to the source and increases as the diaphragm is moved closer to the source.

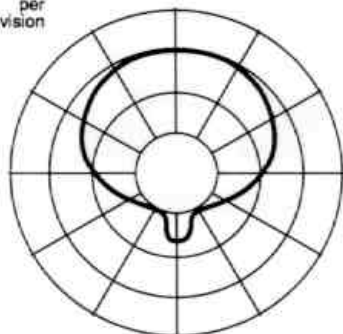
FREQUENCY RESPONSE PROXIMITY EFFECT



0° & 180° FREQUENCY RESPONSE

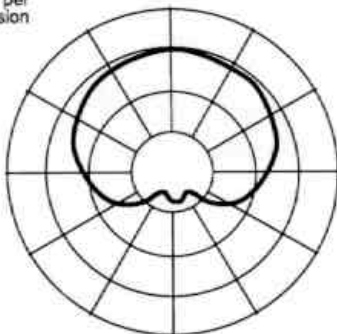
**POLAR PATTERNS**

10dB  
per  
division



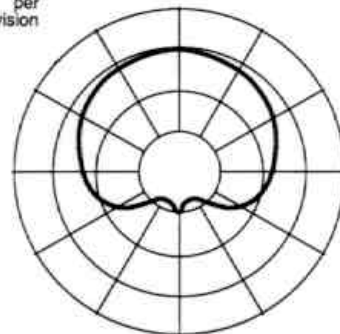
**500Hz**

10dB  
per  
division



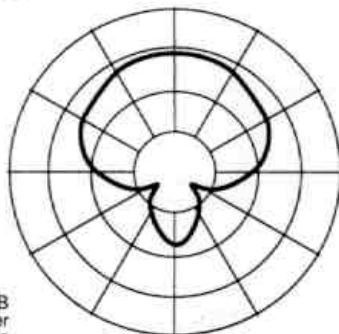
**1K**

10dB  
per  
division



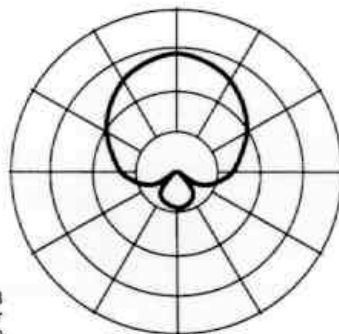
**2K**

10dB  
per  
division

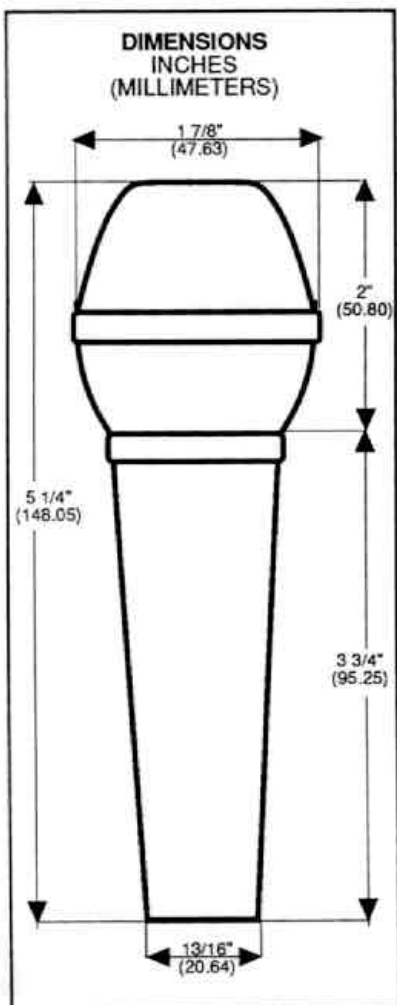


**5K**

10dB  
per  
division



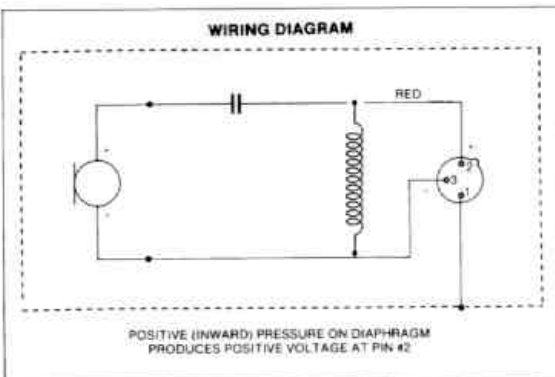
**10K**



**ACCESSORIES**

Durable flite-type carrying case, swivel adaptor, foam windscreen, and 25' (7.62m) balanced low impedance cable with 3-pin XLR equivalent audio connectors.

**WIRING DIAGRAM**



## ARCHITECTURAL & ENGINEERING SPECIFICATIONS

The microphone shall be a moving coil dynamic type. The microphone shall have a hypercardioid polar characteristic with a rear response that is 15 to 20 dB down. The microphone shall have an output power level of -52 dB where 0 dB = 1 milliwatt per 10 microbar and nominal impedance of 300 ohms. The connector shall be a three-pin XLR equivalent audio type, and a swivel adaptor shall be provided to mount on a stand having 5/8"-27 thread. The microphone shall have overall dimensions of 5 1/4" in length and 1 7/8" in diameter. The microphone shall be a Peavey model PVM™ 580i Neo-Dynamic™ or equivalent.

### PEAVEY MICROPHONE LIMITED WARRANTY/REMEDY

PEAVEY ELECTRONICS CORPORATION ("Peavey") warrants this microphone to the original retail purchaser to be free from defects in material and workmanship for a period of one (1) year from date of purchase; provided, however, that the existence of this limited warranty is subject to the conditions, exclusions and limitations hereinafter set forth. In case of a covered defect in material or workmanship, Peavey will repair or replace the microphone, at Peavey's option, provided that consumer:

- (a) brings the defective microphone to any Peavey Authorized Dealer or Service Center and presents therewith a copy of the sales receipt or other proof of purchase. If the DEALER or SERVICE CENTER is unable to provide the necessary warranty service, the consumer will be directed to the nearest other PEAVEY AUTHORIZED DEALER or SERVICE CENTER which can provide such service; or
  - (b) returns the defective microphone, shipping charges prepaid, to Peavey Electronics Corporation, 711 A Street, Meridian, Mississippi, and includes therewith a written description of the problem, a copy of the sales receipt or other proof of purchase and consumer's complete return address.
- If the defect is remedial under this limited

warranty and the other terms and conditions expressed herein have been complied with, Peavey will provide the necessary warranty service to repair or replace the microphone and will return it, freight collect, to the consumer.

Under no circumstances will Peavey be liable for any lost profits, lost savings or other consequential or incidental damages arising out of the use or inability to use the product, even if Peavey had been advised of the possibility of such damages.

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Peavey Electronics Corporation gives this limited warranty only with respect to Peavey microphones purchased in the United States of America. This limited warranty shall be void and of no effect if:

- (a) first purchase of the product is for the purpose of resale; or
- (b) the original retail purchase is not made from an AUTHORIZED PEAVEY DEALER; or
- (c) the product has been damaged by accident or unreasonable use, neglect, improper service or maintenance, or other causes not arising out of defects in material or workmanship.

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