



## MA-301fet Condenser Microphone

The MA-301fet is a multi-pattern large diaphragm, solid-state condenser microphone. Based upon the popular MA-201fet designed by David Royer, the MA-301fet adds a 3-position pickup pattern selector, a 15dB pad and a switchable bass roll-off.

Utilizing a 3-micron gold-sputtered capsule, high-quality Jensen audio transformer, military-grade FET and custom designed low-noise resistors, the MA-301fet performs at a level reminiscent of some of the best loved classic condenser microphones. Each MA-301fet microphone is carefully tested and evaluated, then packaged in its protective case with a professional grade shockmount.

### Features:

- Multi-pattern: Cardioid, Omnidirectional, Figure-eight (Bi-directional)
- Switchable 15dB pad
- Switchable Bass Roll-off
- Hand-selected 3-micron 1" capsule
- Jensen audio transformer
- Military-grade FET
- Custom designed low-noise resistors
- Ultra clean signal path

### Recommended Applications:

- Vocals
- Voice Over and Broadcast
- High SPL sources, such as Kick Drums and Bass Guitar Amps
- Electric Guitar
- Piano
- Drum Overheads, Drum Rooms
- Acoustic Instruments



Actual size

# MA-301fet

## TECHNICAL DATA

<b>TRANSDUCER TYPE:</b>	Externally polarized, pressure gradient capacitor - double diaphragm.
<b>DIAPHRAGM:</b>	1-inch diameter, gold sputtered
<b>DIAPHRAGM THICKNESS:</b>	3 microns
<b>POLAR PATTERN:</b>	3 patterns; omni, cardioid and figure-8
<b>FREQUENCY RESPONSE:</b>	20 Hz to 20 KHZ, $\pm 3$ dB at "flat" setting of bass cut switch. Bass cut switch provides 6 dB per octave attenuation below 100 Hertz in "cut" setting
<b>SENSITIVITY:</b>	-40.5 dB, re. 1V/pa
<b>MAXIMUM SPL:</b>	120 dB with pad off, 135 dB with pad on.
<b>DISTORTION:</b>	< 1% @ 120 dB SPL , < 3% @ 134 dB SPL with pad off < 1% @ 134 dB SPL, < 3% @ 148 dB SPL with pad on
<b>SELF NOISE:</b>	14dB nominal, not to exceed 16dB (A weighted)
<b>PAD:</b>	15 dB
<b>BASS CUT:</b>	6 dB per octave below 100 Hz
<b>IMPEDANCE:</b>	550 ohms, transformer balanced (Jensen)
<b>POWERING:</b>	48VDC phantom power; current 1.2 mA

### DIMENSIONS AND WEIGHT:

Carrying case with microphone, shock mount:  
10" x 9" x 4.5", 4 lbs.

Microphone: 7 5/8" X 2" (194mm x 51mm), 1 lb. (0.45Kg)



## Frequency Response and Polar Pattern

