

# ARTcessories™

Creative audio solutions in cool little boxes.

## PROSplit

High Performance Microphone Splitter

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**Use the PRO Split to split any balanced low impedance microphone signal into two balanced low impedance microphone signals.**

The PRO Split provides one direct output and one transformer isolated output from a single microphone. Applications include sending the direct output to the main or FOH mixer, and the second isolated output being sent to a monitor or recording mixer. The direct output passes phantom power from the main mixer to the microphone for use with condenser microphones.

The PRO Split includes a ground-lift switch on the isolated output to reduce noise due to ground loops between connected equipment. For versatility the PRO Split also features an attenuator pad switch on the input that can be used to connect a preamplified signal to the two microphone-level PRO Split outputs. Typically, preamplified signals would originate from instrument preamplifiers, mixers, keyboards, etc.

### Specifications:

*NOTE: All measurements made from TRANSFORMER ISOLATED MICROPHONE OUTPUT with PAD SWITCH out (off) and 150 Ohm balanced source feeding MICROPHONE INPUT and 1K Ohm load connected to TRANSFORMER ISOLATED MICROPHONE OUTPUT to simulate a typical "real world" microphone and mic preamplifier. 0 dBu = 0.775 VRMS.*

FREQUENCY RESPONSE:	20 Hz to 20K Hz, $\pm 0.25$ dB @ -15 dBu -3 dB at approximately 165K Hz
TOTAL HARMONIC DISTORTION:	Less than 0.26% from 20 Hz to 20K Hz at -15 dBu input Less than 0.1% from 45 Hz to 20K Hz at -15 dBu input 0.002% Typical at 1K Hz, -15 dBu input
PHASE RESPONSE:	Less than 10 degrees at 20K Hz (ref. 1K Hz)
INPUT IMPEDANCE:	Greater than 1.1K Ohms at 1K Hz (Typical driving source impedance is 150 Ohms)
OUTPUT IMPEDANCE:	Less than 255 Ohms at 1K Hz (Typical output load impedance is 1K Ohms)
COMMON MODE REJECTION RATIO:	Greater than 105 dB @ 60 Hz Greater than 80 dB @ 3K Hz
VOLTAGE INSERTION LOSS:	Approximately 2 dB at 1K Hz
MAXIMUM INPUT LEVEL FOR 1% THD:	-1.4 dBu at 20 Hz +3.5 dBu at 30 Hz +9.4 dBu at 50 Hz

### Usage:

Connect low impedance dynamic or condenser microphone to MICROPHONE INPUT on the PRO Split.  
(Alternatively connect line level signal to MICROPHONE INPUT and engage front panel INPUT PAD switch.)  
Connect DIRECT MICROPHONE OUTPUT to mic input on main mixer (switch phantom power on at mixer if desired).  
Connect TRANSFORMER ISOLATED MICROPHONE OUTPUT to mic input on secondary mixer or recording system.  
Set GROUND switch to LIFT or GND. Use whichever setting provides lowest noise performance.

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