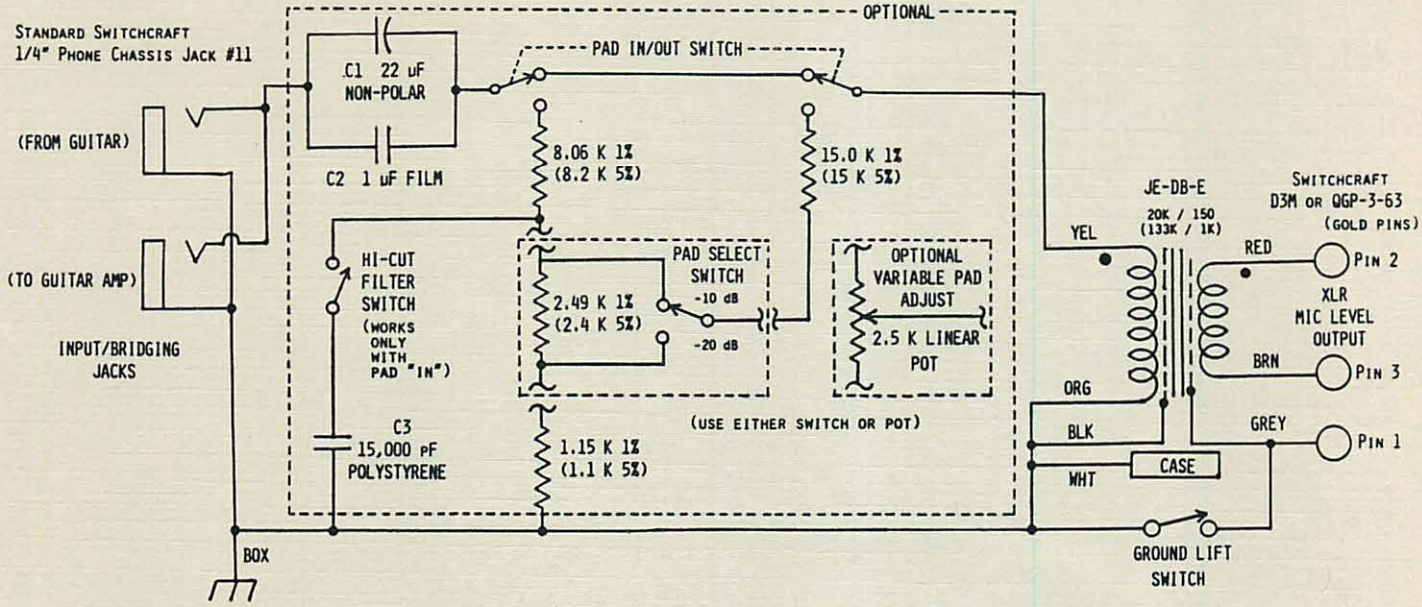
Application Note

jensen transformers
INCORPORATED

JE-DB-E DIRECT BOX TRANSFORMER
APPLICATION SCHEMATIC



NOTES:

1. C1 is a high quality, non-polar aluminum electrolytic, such as Roederstein type EKU. Voltage rating should be 25 Volt or higher. If non-polar cap is not available, use two 47 µF @ 25 V polarized electrolytics in series as shown on the JE-DB-E Data Sheet. Because of their high distortion, tantalum capacitors are NOT recommended for C1.

2. C2 is an optional high quality (polypropylene or polycarbonate) film capacitor used together with C1 to improve the sonic quality of the input capacitor.

3. C3 is a high quality (polystyrene or polypropylene) film capacitor. Adjust value for desired high-frequency rolloff (filter works only with pad in circuit).

4. Pad circuitry must always be used when source is line or speaker level (synthesizer, guitar amp output, etc.).

5. 1% metal film resistors such as Roederstein (Resista) MK-2 are recommended for their low noise and audio quality, although the nearest 5%, ¼ watt carbon film (values shown in parentheses) will work with reduced accuracy.

6. Optional 2.5 kOhm linear taper potentiometer allows continuously variable attenuation between -10 dB and -20 dB. Conductive plastic is recommended, but carbon will work OK.

7. Pin 2 of the microphone level output connector is "HI", Pin 3 is "LO". This is different from previously published schematics, in order to comply with I.E.C. standards. This is compatable with Neumann, AKG, Beyer, Shure, Sennheiser, Crown, Electro-Voice, and Schoeps microphones, all of which are Pin 2 "Hot".

8. Parts kit DB-E-PK-1 containing all resistors and capacitors needed to build above circuit available from Jensen Transformers. Cost is $5.00.

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