

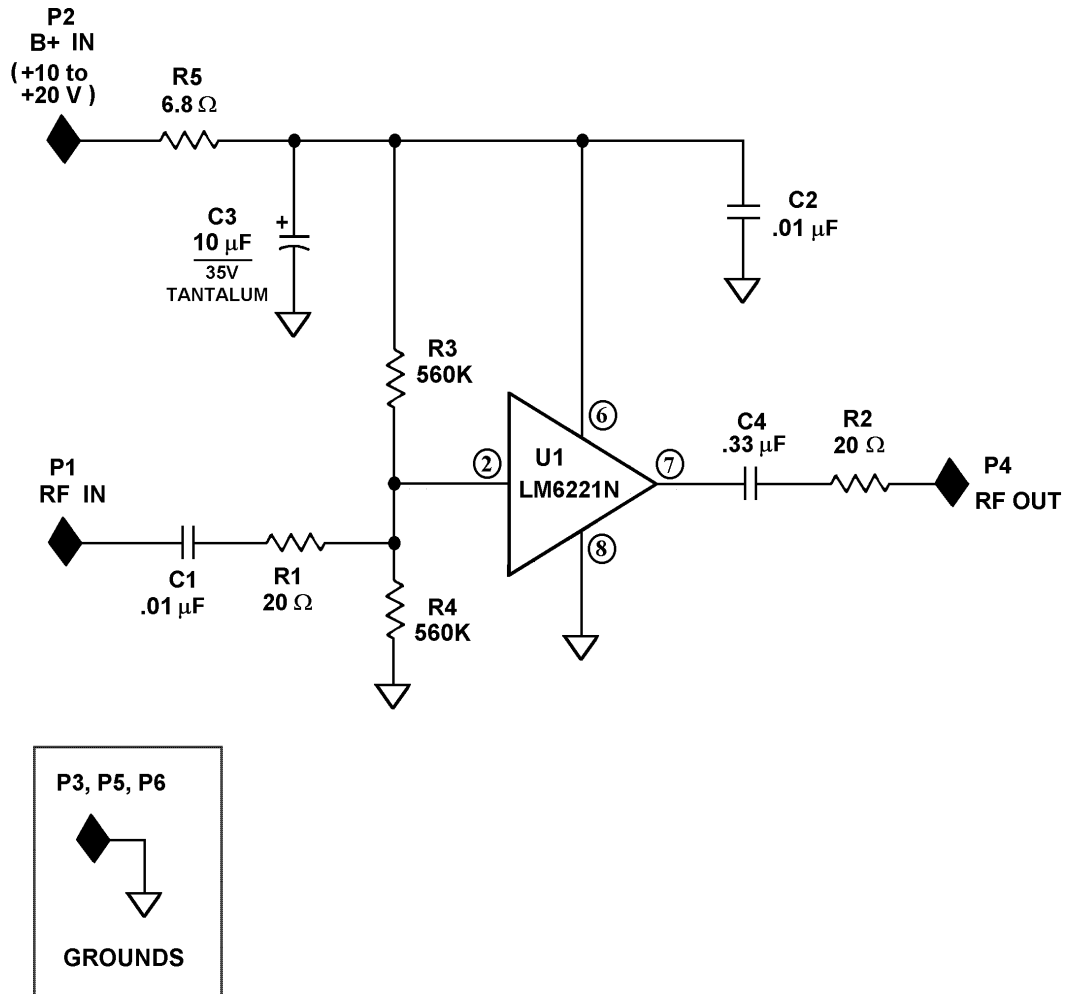
BUF-E Buffer Amplifier

Mark Connelly – WA1ION DX Labs – 24 MAY 1999

This is usable in projects requiring a high-impedance in / low-impedance out amplifier.

BUF-E BUFFER AMPLIFIER CARD

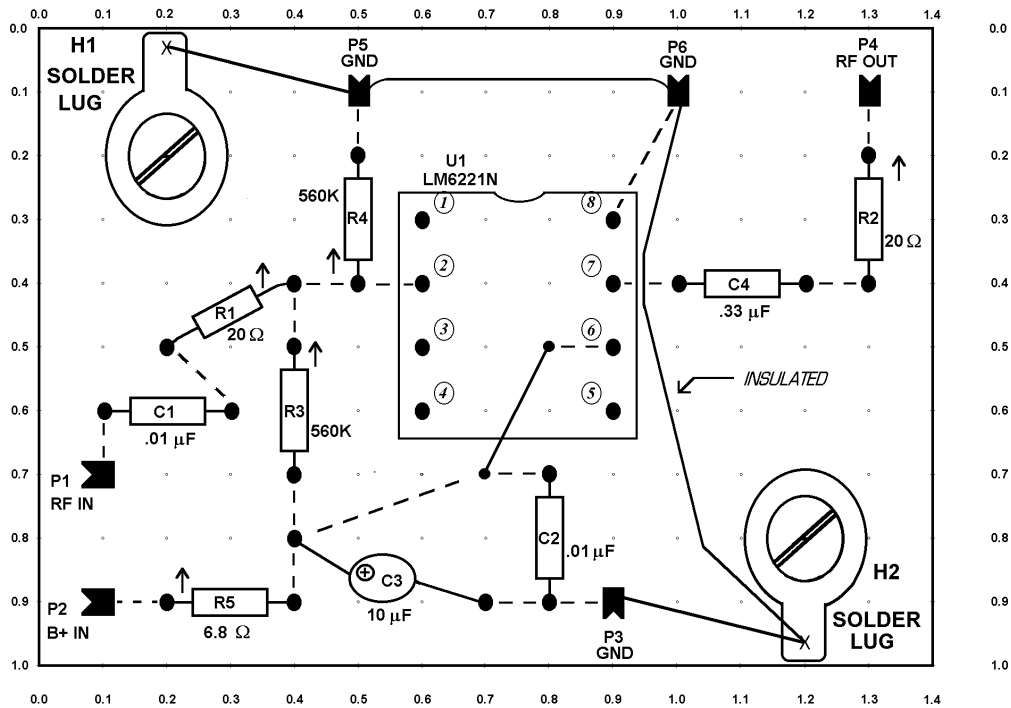
Drawing BUF-E_F1: Schematic



BUF-E figure 1 above

BUF-E BUFFER AMPLIFIER CARD

Drawing BUF-E_F2: Assembly



NOTES

- ↑ = Long lead side of vertically-mounted component
- - - = Buss wire on solder side of board
- = Buss wire on component side of board
- ◀ = "Flea clip" terminal pin
OPEN SIDE

BUF-E figure 2 above

BUF-E Buffer Amplifier Revised: Thursday, February 25, 1999

BUF-E_f1 Revision: A

Bill Of Materials February 25,1999 13:29:59

Item	Quantity	Reference	Vendor: Stock Number	Part Description	Notes
1	2	C1 - C2	CS: CK05103K	Capacitor, 0.01 uF	
2	1	C3	CS: TAC008	Capacitor, Tantalum, 10 uF, 35 V	
3	1	C4	DK: P4959-ND	Capacitor, 0.33 uF	
4	1	H_PB1	RS: 276-1396	Perfboard	cut size 1.1" * 1.5"
5	2	H_SC1 - H_SC2	MOU: 5721-440-1/4	Screw, 4-40 * .25"	stock num.= 100 pieces
6	2	H_SL1 - H_SL2	MOU: 534-7311	Solder lug, #4, internal tooth	
7	1	H_SO1	CS: CA-8	Socket, 8-pin DIP	for U1
8	2	H_SP1 - H_SP2	MOU: 534-1450C	Spacer, 4-40 * .5"	
9	6	P1 - P6	CS: T42-1/100	Flea-clip Terminal Pin for .042" hole	
10	2	R1 - R2	CS: RA20	Resistor, 20 ohm	
11	2	R3 - R4	CS: 560K	Resistor, 560K	
12	1	R5	CS: RA6.8	Resistor, 6.8 ohm	
13	1	U1	DK: LM6221N-ND	National LM6221N Buffer Amplifier, 8-pin DIP	

Vendor Codes

CS: Circuit Specialists: <http://www.cir.com>
DK: Digi-Key: <http://www.digikey.com>
MOU: Mouser Electronics: <http://www.mouser.com>
RS: Radio Shack: <http://www.radioshack.com>