

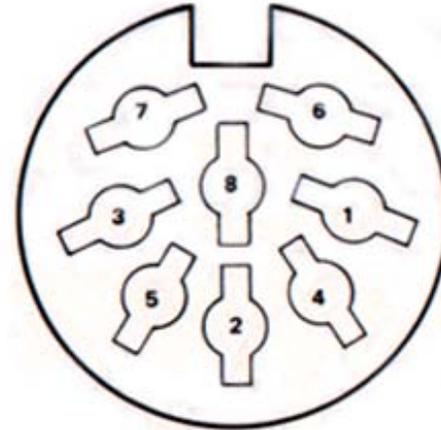
# M100 Cassette Interface Cable

## Radio Shack PN# 26-1207

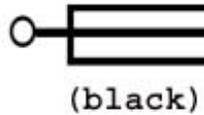
to Remote jack



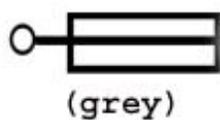
Input level: Impedance 100ohm (800mV - 5Vpp)  
Output level: Impedance 3.3Kohm (650mVpp)  
REMOte: 6 VDC 0.5A max.



to Ear jack



to Mic/Aux jack



3 Rem 2

1 Rem 1

4 Ear (input/RX)

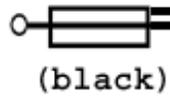
2 GND

5 Rec (output/TX)

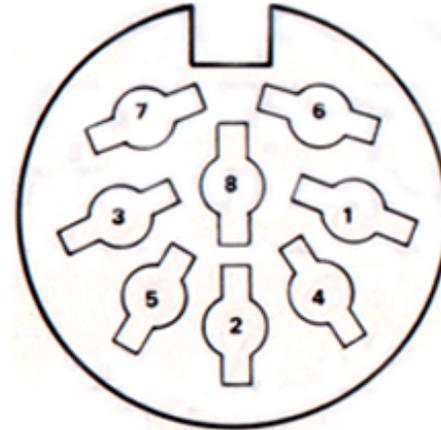
male din plug  
to M100

# uber cable mk 5

to Remote jack

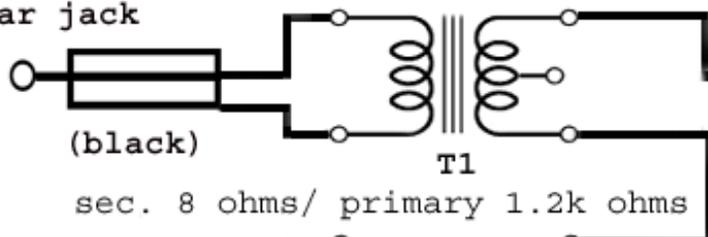


Input level: Impedance 100ohm (800mV - 5Vpp)  
 Output level: Impedance 3.3Kohm (650mVpp)  
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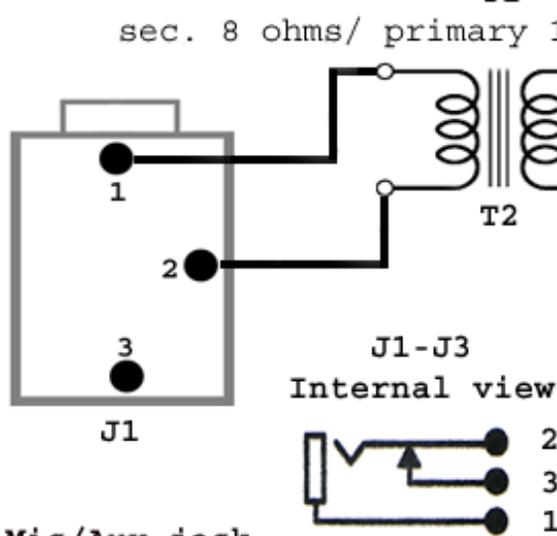


3 Rem 2  
 1 Rem 1

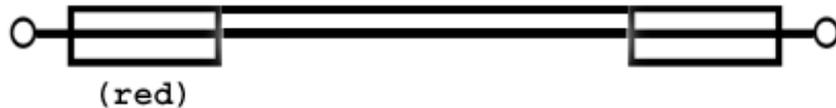
to Ear jack



4 Ear (input/RX)



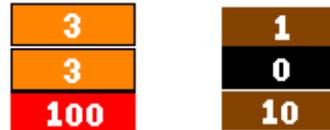
to Mic/Aux jack



2 GND

5 Rec (output/TX)

R1, R3 (3.3k ohms) R2 (100 ohms) C1 .01 uf



male din plug to M100

## Parts of the UBER CABLE:

**DIN:** Connection point to the model 100 series computer. Simply plug it into the jack labeled 'Cassette'.

**Remote:** Nothing has changed about this. Functions in the same way as an original Radio Shack data cable.

Under many circumstances it's ok to not use this plug such as when you are transferring small files and (.ba) programs. In some situations however, it is very important. For example, when large text files are being downloaded to the model 100. The computer will send a signal out via the Remote plug to turn a cassette player on and off. The pausing of the tape allows the computer to regulate the download until it's ready for the next chunk of information. If you have an audio playback device without a REM jack you can always solder one in if you know a little about electronics and can use a soldering iron.

Otherwise a "manual method" can be used: during the file download to the model 100 you will hear a clicking sound from an internal relay. When the relay clicks you must manually pause your audio playback device. When the relay clicks again resume playback from your audio device. Note: Just about any analog tape recorder will have a remote jack or one can be easily soldered into it. However, digital recording devices and mp3 players don't have remote jacks and are problematic at best for soldering in a remote jack.

**Input:** This is the same as the "EAR" on the original RS cable. Receives audio from your audio device and allows data to be transferred to the model 100. Plugs into the EAR or HEADPHONE jack. Without going into details I will say that this plug has been enhanced. This means that downloads from the more modern audio devices (MD players, MP3 players) is now possible.

### **Output:**

The UBER CABLE has a variety of output options depending on which version of the cable you have.

The Recording Cable has a plug at both ends. One end is connected to the REC/AUX or MIC jack of your recorder. The other end is connected to the main body of the UBER CABLE itself. Your general options include HI, LO, and ISO. Please look at the 'Guidelines' section for ideas on which output to use with your particular recorder.

## Other things you need to know:

### **Notes on using analog recording devices:**

There are many potential problems associated with these machines. Overall the most common ones involve the recorder in question falling out of calibration. This could be caused by the bands in the recorder becoming loose due to age, the running speed of the recorder not set correctly, or the position of the recording/ playback head having been shifted ever so slightly. In a situation like this it's possible for the device to record and playback files in a seemingly normal manner. However, when a tape made with this machine is used in another for playback and download it doesn't work properly. A method for testing and adjusting your analog recorder is to use a Industry Standard Calibration Tape. An Audio Video repair shop can tell you more about them.

- Generally, high end (metal) cassette tapes should not be used.

- Over an extended period of time, or with exposure to high heat levels, the tape in a cassette can stretch and have difficulty playing normally.
- The recording speed should be set to 2.4 not 1.2 when using a micro cassette.
- Always take note of the settings on your recorder, such as the volume level, before transferring files.
- The quality of file transfers can be adversely affected by weak batteries.
- Recorders that are plugged into an AC source of power might introduce line noise over the recording/ playback.
- If you decide to solder in your own REMote jack it must be soldered in line with the motor and it's (+)positive wire, not with the (+) positive wire of the recorder's power source.
- Tape heads should be cleaned and de-magnetized on a regular basis.
- If you are having trouble with downloads you should use the 'SOUND OFF' command in basic.
- Some recorders have been known to reduce the output at the EAR or HEADPHONE jack when something is plugged into the MIC jack. When downloading problems occur try unplugging any connection you have with MIC jack.
- In BASIC you should use the CLOAD? Command to verify the saving of programs.

#### **Notes on using digital recording devices:**

I highly recommend using a digital recorder for the reliable storage of your model 100 programs. There are so many positive reasons for using such a device that I won't even bother to touch upon them. However, I do need to point out the negative aspects, minimal as they are:

- As stated before, the option of using a REMOTE jack may be non-existent. This will affect your ability to download ASCII and TEXT files. Manual pausing of the playback may be required.
- If you save a file and the batteries in your recorder are weak it might cause trouble for you during playback.
- If you are having trouble with downloads you should use the 'SOUND OFF' command in basic.
- In BASIC you should use the CLOAD? Command to verify the saving of programs.
- Always take note of the settings on your recorder, such as the volume level, before transferring files.
- Archived files should be saved to MP3 format: 128kbps optimal. 96kbps bare minimum.

## **GUIDELINES:**

Perhaps the main problem with saving model 100 programs is making a good match between the output of the computer and the input of the recording device. If your recorder has a 'AUX' or 'LINE IN' connection then you are good to go. Connect one end of the recording cable to this and the other to the UBER CABLE's 'HI' jack. Note: if your U.C. has a switch on it push the switch to the LEFT (position A). This is it's normal position. If your recorder has a 'MIC' input then some testing has to be done.

Following these steps will help you to determine the best setting for your 'MIC' input recorder. This requires patience and for you to take notes. First, type in a program on the model 100. Type SAVE "test.ba". Then type LOAD "test.ba". You have now made a program, and saved it to the computer's memory. The next step is to CSAVE the program different times using the different configurations of the UBER CABLE (depending on your model of cable). You will then playback the different files to determine which version (and UBER CABLE configuration) is best for you. Obviously, the version of the program file that loads determines the UBER CABLE configuration that you need. If all files fail to load then try playing them back again, this time adjusting the volume level to a different point. Below are some recorders, combinations and settings that I found to work well.

Recorder: Radio Shack CCR units 81 82 83  
Recorder Settings: various  
UBER CABLE configuration: HI, switch to LEFT (position A).

Recorder: Radio Shack CTR or any ordinary 'book size' recorder.  
Recorder Settings: various  
UBER CABLE configuration: HI, switch to LEFT (position A).

Recorder: Sanyo MD recorder model  
Recorder Settings: use line input. Set level to about 80%.  
UBER CABLE configuration: HI, switch to LEFT (position A).

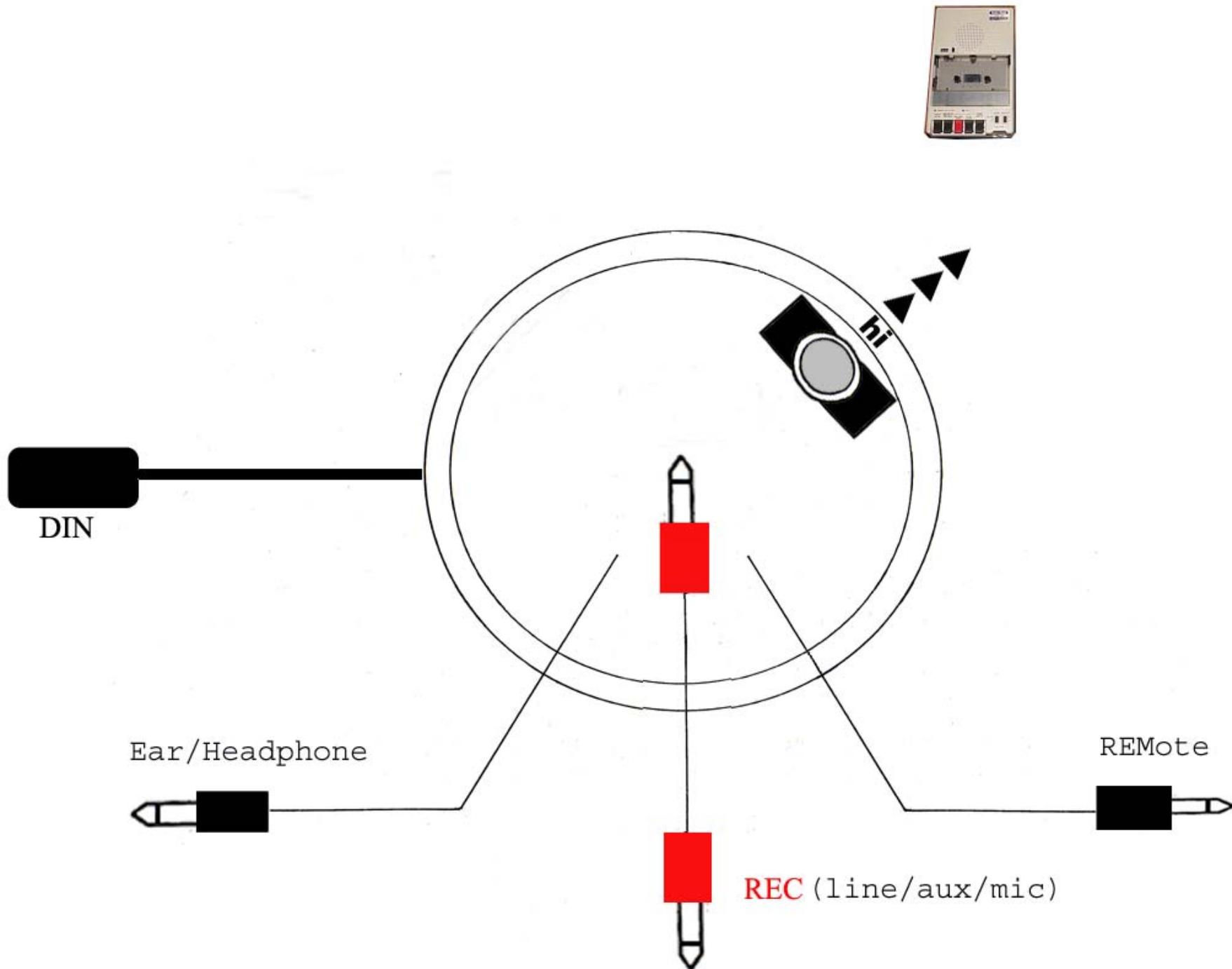
Recorder: Aiwa M110 micro cassette recorder.  
Recorder Settings: Playback at full volume.  
UBER CABLE configuration: LO.

Recorder: IRIVER IFP 100 series. Note: microphone element was taken out and an internal jack added in it's place.  
Recorder Settings: Volume set to max. \*recording m100 files will be bad if battery is weak < 2 bars remaining.  
UBER CABLE configuration: ISO

Recorder: IRIVER IFP 300 series.  
Recorder Settings: line input.  
UBER CABLE configuration: HI, switch to LEFT (position A).

Recorder: Olympus Digital Voice Recorder VN-240 (or any recorder in this series).  
Recorder Settings: Hi quality, mic to hi. Playback volume set to 2.  
UBER CABLE configuration: Hi, switch to RIGHT (position B).

# uber mk 1



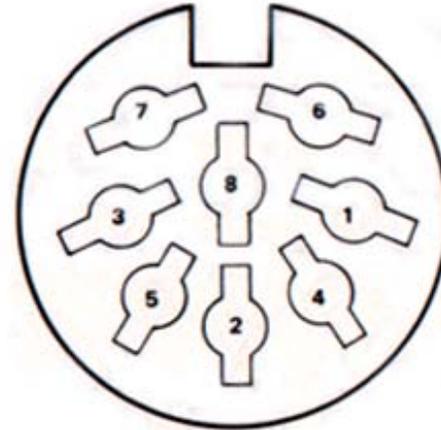
# M100 Cassette Interface Cable

## Radio Shack PN# 26-1207

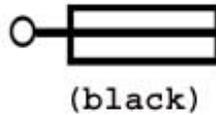
to Remote jack



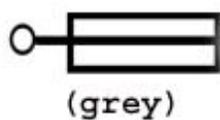
Input level: Impedance 100ohm (800mV - 5Vpp)  
Output level: Impedance 3.3Kohm (650mVpp)  
REMOte: 6 VDC 0.5A max.



to Ear jack



to Mic/Aux jack



3 Rem 2

1 Rem 1

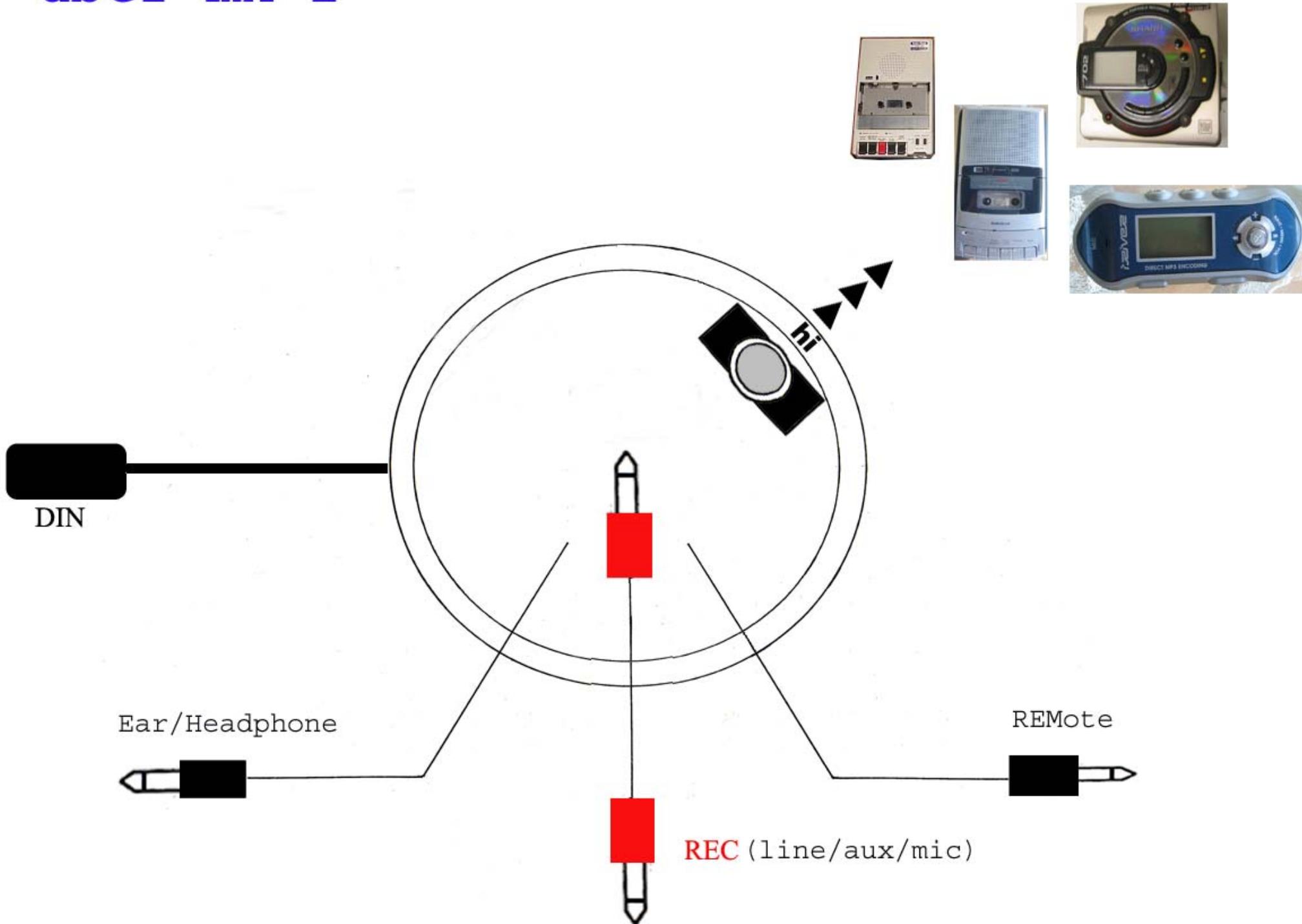
4 Ear (input/RX)

2 GND

5 Rec (output/TX)

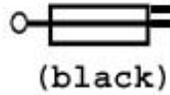
male din plug  
to M100

# uber mk 2



# uber cable mk 2

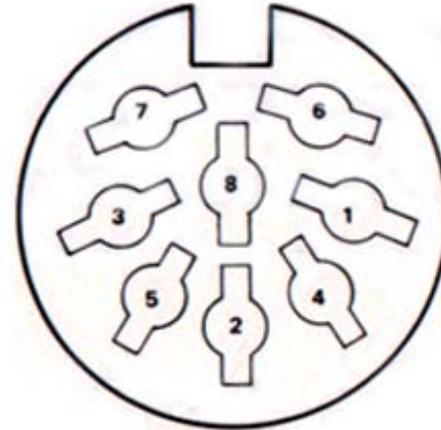
to Remote jack



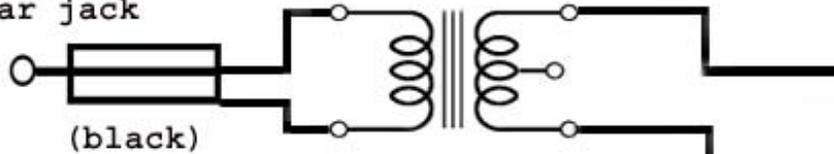
Input level: Impedance 100ohm (800mV - 5Vpp)

Output level: Impedance 3.3Kohm (650mVpp)

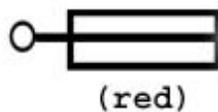
REMOte: 6 VDC 0.5A max.



to Ear jack



to Mic/Aux jack



3 Rem 2

1 Rem 1

4 Ear (input/RX)

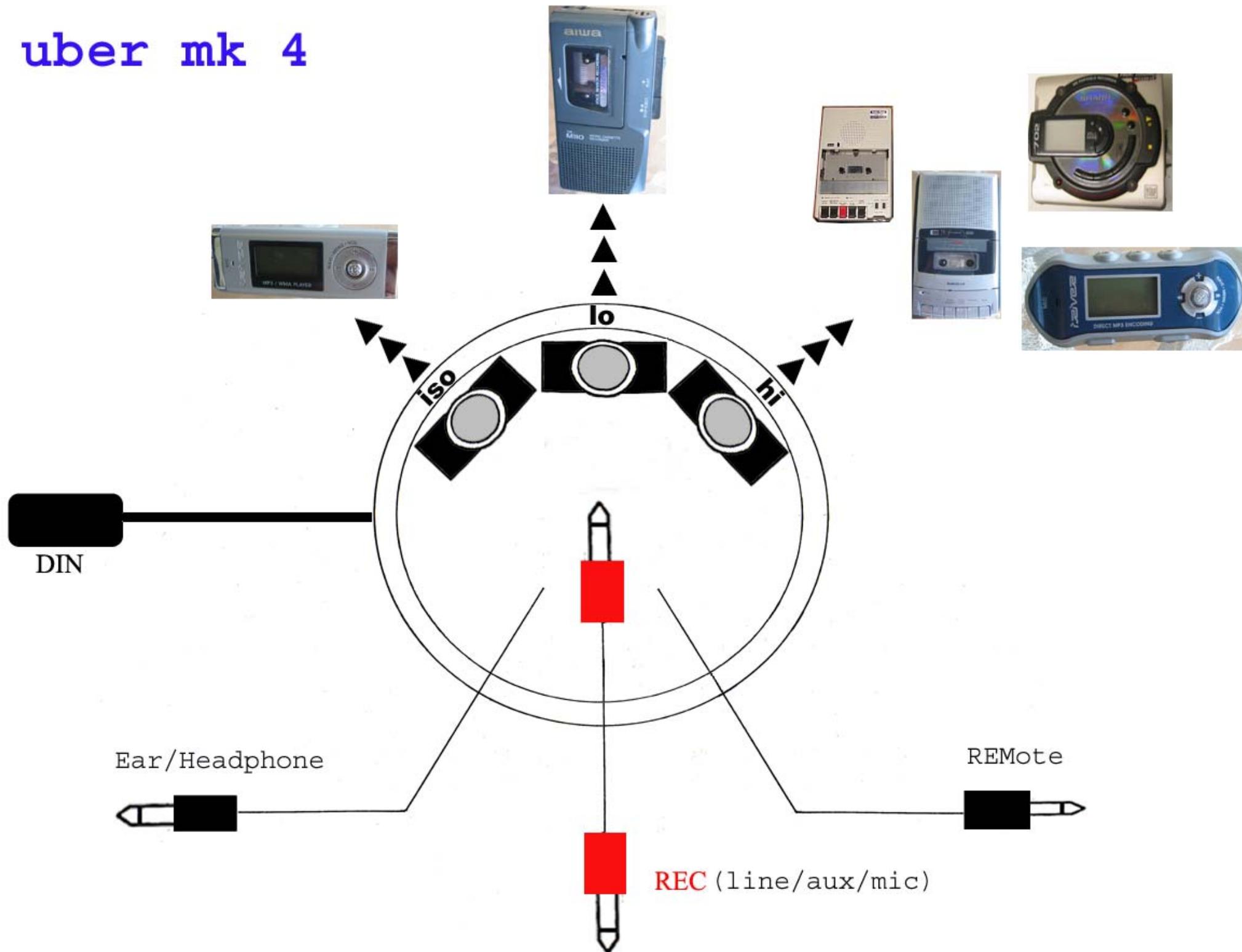
2 GND

5 Rec (output/TX)

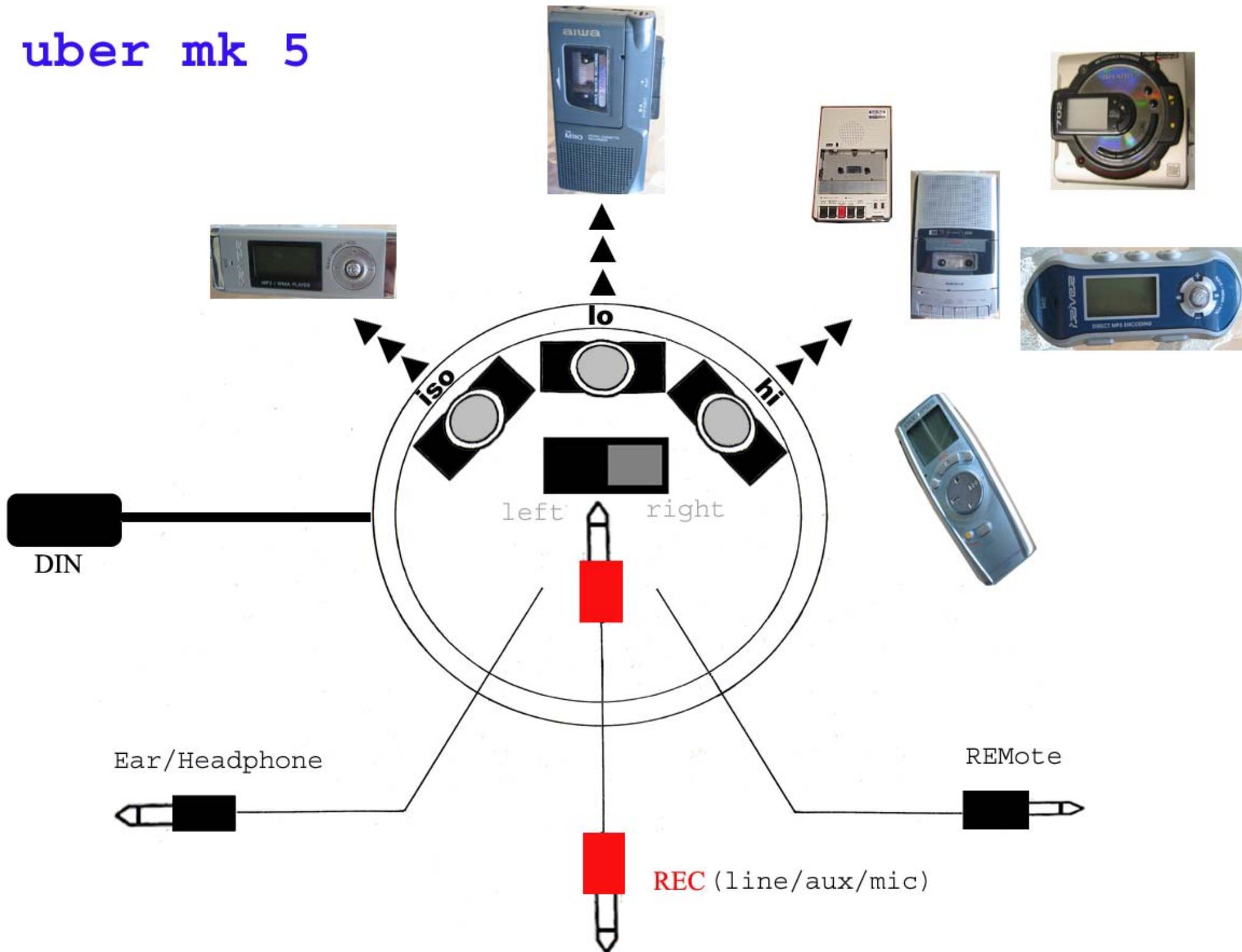
male din plug  
to M100



# uber mk 4

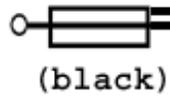


# uber mk 5



# uber cable mk 5

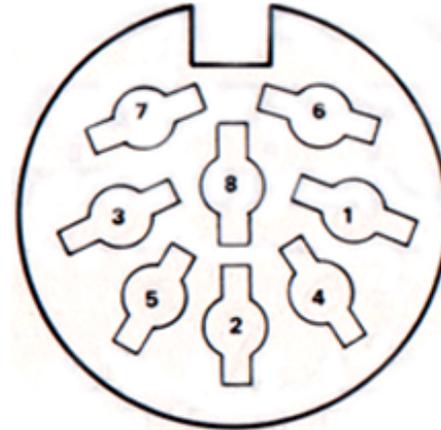
to Remote jack



Input level: Impedance 100ohm (800mV - 5Vpp)

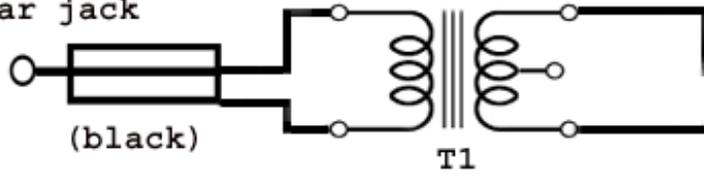
Output level: Impedance 3.3Kohm (650mVpp)

REMOte: 6 VDC 0.5A max.

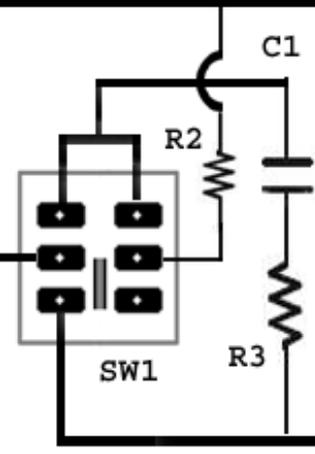
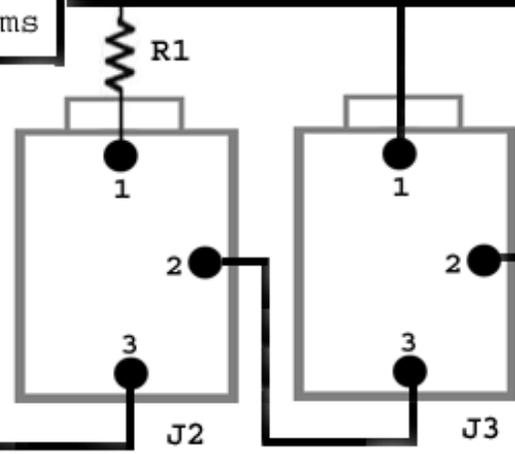
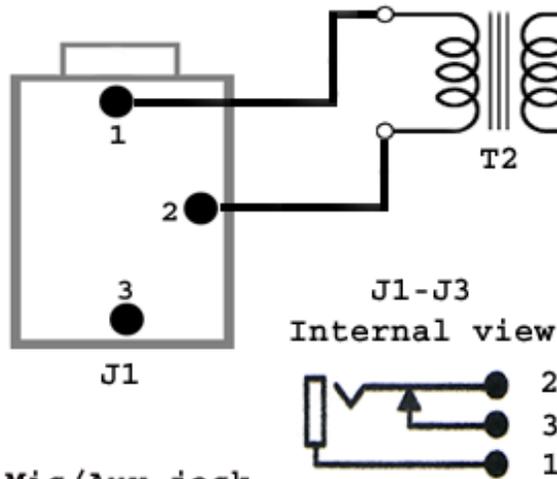


sec. 8 ohms/ primary 1.2k ohms

to Ear jack

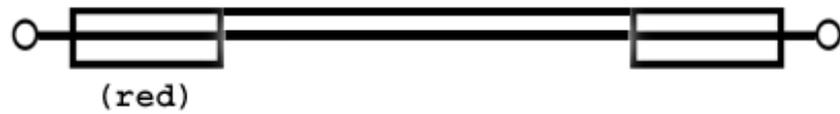


sec. 8 ohms/ primary 1.2k ohms



- 3 Rem 2
- 1 Rem 1
- 4 Ear (input/RX)
- 2 GND
- 5 Rec (output/TX)

to Mic/Aux jack

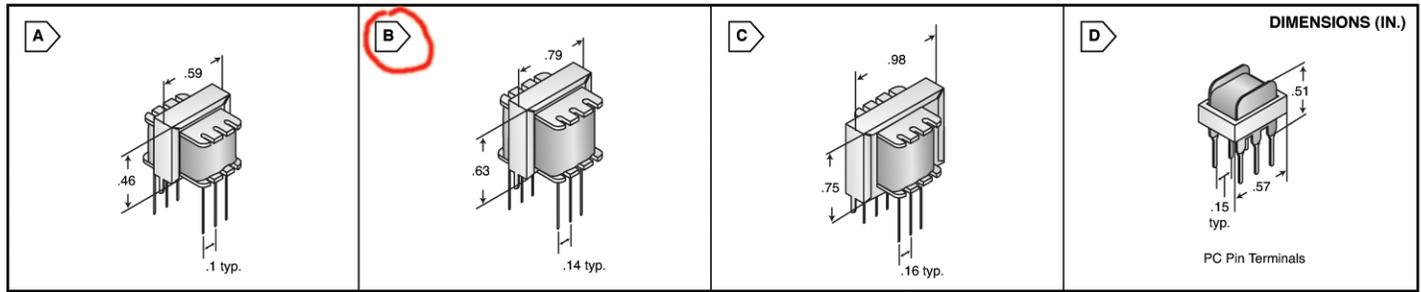


R1, R3 (3.3k ohms) R2 (100 ohms) C1 .01 uf



male din plug to M100

# XICON Audio and I.F. Transformers



## PC LEADS

**MOUSER STOCK NO.** Fig. Impedance ( $\Omega$ ) Pri. Sec. Resistance ( $\Omega$ ) Pri. Sec. Application (Typical) Price Each 1 100 500 1000

**Ultraminiature Core Type EI-14, 75mW Max Output**

42TL030	A	100 CT	100 CT	10.9	9.10	Coupling	1.43	1.19	1.08	.98
42TL004	A	200 CT	8 CT	12	1	Output	1.37	1.14	1.04	.90
42TL023	A	300 CT	600 CT	30	35	Coupling	1.37	1.14	1.04	.90
42TL001	A	500 CT	8 CT	35	1	Output	1.37	1.14	1.04	.90
42TL026	A	500 CT	16 CT	43	1.9	Output	1.37	1.14	1.04	.90
42TL009	A	500 CT	500 CT	40	38	Interstage	1.37	1.14	1.04	.90
42TL031	A	600 CT	100 CT	42.8	20.2	Coupling	1.52	1.25	1.14	1.04
42TL016	A	600 CT	600 CT	65	55	Coupling	1.37	1.14	1.04	.90
42TL008	A	800 CT	8 CT	40	1	Output	1.37	1.14	1.04	.90
42TL013	A	1K CT	8 CT	60	1	Output	1.37	1.14	1.04	.90
42TL027	A	1K CT	2K CT	130	140	Coupling	1.37	1.14	1.04	.90
42TL003	A	1.2K CT	8 CT	80	1	Output	1.37	1.14	1.04	.90
42TL022	A	1.5K CT	600 CT	125	55	Coupling	1.37	1.14	1.04	.90
42TL021	A	4K CT	600 CT	148	64	Coupling	1.37	1.14	1.04	.90
42TL018	A	7K CT	10K CT	400	385	Interstage	1.64	1.37	1.24	1.08
42TL024	A	10K CT	500 CT	530	136	Coupling	1.46	1.21	1.10	.96
42TL019	A	10K CT	600 CT	450	100	Coupling	1.46	1.21	1.10	.96
42TL002	A	10K CT	2K CT	500	200	Driver	1.46	1.21	1.10	.96
42TL012	A	10K CT	5K CT	900	500	Interstage	1.64	1.37	1.24	1.08
42TL018	A	10K CT	10K CT	715	583	Interstage	1.94	1.62	1.48	1.34
42TL017	A	20K CT	600 CT	693	66	Coupling	1.64	1.37	1.24	1.08
42TL006	A	20K CT	1K CT	600	110	Interstage	1.46	1.21	1.10	.96

**Core Type EI-19, 200mW Max Output**

42TM030	B	100 CT	100 CT	9.25	7.80	Coupling	1.68	1.40	1.27	1.15
42TM004	B	200 CT	8 CT	12	1	Output	1.73	1.44	1.31	1.14
42TM010	B	350 CT	8 CT	20	1	Output	1.73	1.44	1.31	1.14
42TM001	B	500 CT	8 CT	26	1	Output	1.73	1.44	1.31	1.14
42TM026	B	500 CT	16 CT	50	5	Output	1.73	1.44	1.31	1.14
42TM009	B	500 CT	500 CT	50	40	Interstage	1.73	1.44	1.31	1.14
42TM031	B	600 CT	100 CT	30.1	14.3	Coupling	1.83	1.53	1.39	1.26
42TM023	B	600 CT	300 CT	55	30	Coupling	1.73	1.44	1.31	1.14
42TM016	B	600 CT	600 CT	65	55	Coupling	1.73	1.44	1.31	1.14
42TM008	B	800 CT	8 CT	40	1	Output	1.73	1.44	1.31	1.14
42TM013	B	1K CT	8 CT	75	1	Output	1.73	1.44	1.31	1.14

## PC LEADS (CONT.)

**MOUSER STOCK NO.** Fig. Impedance ( $\Omega$ ) Pri. Sec. Resistance ( $\Omega$ ) Pri. Sec. Application (Typical) Price Each 1 100 500 1000

**Core Type EI-19, 200mW Max Output Cont.**

42TM003	B	1.2K CT	8 CT	80	1	Output	1.73	1.44	1.31	1.14
42TM022	B	1.5K CT	500 CT	120	50	Interstage	1.73	1.44	1.31	1.14
42TM021	B	1.5K CT	600 CT	65	45	Coupling	1.73	1.44	1.31	1.14
42TM021	B	4K CT	600 CT	244	77	Coupling	1.73	1.44	1.31	1.14
42TM114	B	4.6K CT	20 CT	300	2	Input	1.73	1.44	1.31	1.14
42TM024	B	10K CT	500 CT	550	150	Coupling	1.91	1.59	1.45	1.26
42TM019	B	10K CT	600 CT	600	100	Coupling	1.91	1.59	1.45	1.26
42TM002	B	10K CT	2K CT	600	155	Driver	1.91	1.59	1.45	1.26
42TM018	B	10K CT	10K CT	550	500	Interstage	1.91	1.59	1.45	1.26
42TM006	B	20K CT	1K CT	900	70	Interstage	1.91	1.59	1.45	1.26
42TM017	B	25K CT	600 CT	1000	80	Coupling	1.91	1.59	1.45	1.26
42TM117	B	50K CT	1K CT	1.2K	42	Input	1.91	1.59	1.45	1.26

**Dual Secondary Core Type EI-19, 200mW Max Output**

42TM028	B	600 CT	600/600	78	65/60	Coupling	1.73	1.44	1.31	1.14
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**Miniature Core Type EI-24, 400mW Max Output**

42TU048	C	48 CT	8 CT	2.5	.5	Output	2.19	1.82	1.66	1.44
42TU120	C	120 CT	8CT	7	.7	Output	2.19	1.82	1.66	1.44
42TU200	C	200 CT	8 CT	12	.5	Output	2.19	1.82	1.66	1.44
42TU400	C	500 CT	8 CT	18	.7	Output	2.19	1.82	1.66	1.44
42TU500	C	500 CT	500 CT	35	28	Interstage	2.19	1.82	1.66	1.44
42TU016	C	600 CT	600 CT	65	55	Coupling	2.19	1.82	1.66	1.44
42TU008	C	800 CT	8 CT	40	1	Output	2.19	1.82	1.66	1.44
42TU013	C	1K CT	8 CT	75	1	Output	2.19	1.82	1.66	1.44
42TU003	C	1.2K CT	8 CT	75	1	Output	2.19	1.82	1.66	1.44
42TU011	C	1.5K CT	500 CT	120	50	Interstage	2.19	1.82	1.66	1.44
42TU019	C	10K CT	600 CT	600	100	Coupling	2.19	1.82	1.66	1.44
42TU002	C	10K CT	2K CT	600	155	Driver	2.19	1.82	1.66	1.44
42TU012	C	10K CT	5K CT	425	220	Interstage	2.19	1.82	1.66	1.44

## PC Pin Terminals

**MOUSER STOCK NO.** Fig. Impedance ( $\Omega$ ) Pri. Sec. Resistance ( $\Omega$ ) Pri. Sec. Application (Typical) Price Each 1 100 500 1000

**Microminiature Core Type EI-14, 75mW Max Output**

42XL016	D	600 CT	600 CT	65	55	Coupling	1.50	1.25	1.14	.99
42XL003	D	1.2K CT	8 CT	80	1	Output	1.50	1.25	1.14	.99

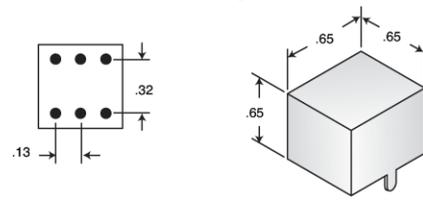
## SHIELDED AUDIO TRANSFORMERS MICROMINIATURE CORE TYPE EI-14, 75 $\mu$ W MAX OUTPUT

Epoxy encapsulated. Metal shielded to reduce magnetic cross coupling and electrostatic fields.

For quantities of 2000 and up, call for quote.

**MOUSER STOCK NO.** Impedance ( $\Omega$ ) Primary Secondary Resistance ( $\Omega$ ) Primary Secondary Application (typical) Price Each 1 100 500 1000

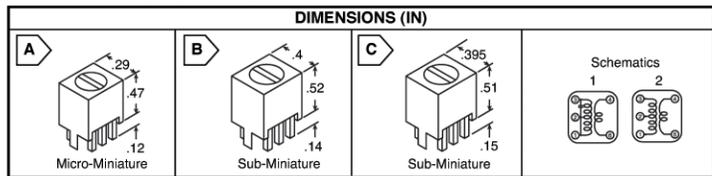
429-7201	500 CT	8 CT	35	1	Output	2.85	2.38	2.16	1.88
429-7209	500 CT	500 CT	40	38	Interstage	2.85	2.38	2.16	1.88
429-7216	600 CT	600 CT	65	55	Coupling	2.85	2.38	2.16	1.88
429-7218	7K CT	10K CT	400	385	Interstage	2.85	2.38	2.16	1.88
429-7202	10K CT	2K CT	580	200	Driver	2.85	2.38	2.16	1.88



DIMENSIONS (IN)

## XICON I.F. TRANSFORMERS

I.F.: Intermediate Frequency



### Micro-Miniature PC Mounting

For quantities of 1000 and up, call for quote.

**MOUSER STOCK NO.** Fig. Impedance Pri : Sec Application (Typical) Cap Color Schem. Turns Ratio Pri : Sec Price Each 1 10 100 500

**455kHz**

42IF201	A	50K : 500	1st IF	Yel	1	22 : 1	1.16	.97	.88	.80
42IF202	A	30K : 500	2nd IF	White	1	22 : 1	1.16	.97	.88	.80
42IF203	A	20K : 5K	3rd IF	Black	1	8 : 1	1.16	.97	.88	.80

**10.7MHz**

42IF222	A	1K : 300	2nd & 3rd IF	Org	1	8 : 1	1.21	1.00	.91	.83
42IF223	A	25K : 1K	1st IF	Green	1	8 : 1	1.21	1.00	.91	.83

### Sub-Miniature PC Mounting

For quantities of 1000 and up, call for quote.

**MOUSER STOCK NO.** Fig. Impedance Pri : Sec Application (Typical) Cap Color Schem. Turns Ratio Pri : Sec Price Each 1 10 100 500

**455kHz**

42IF101	C	60K : 600	1st IF	Yel	1	22 : 1	.79	.71	.65	.60
42IF301	B	50K : 500	1st IF	Yel	1	20 : 1	1.11	.93	.84	.77
42IF102	C	30K : 500	2nd IF	White	1	22 : 1	.79	.71	.65	.60
42IF302	B	30K : 500	2nd IF	White	1	22 : 1	1.11	.93	.84	.77
42IF103	C	20K : 6K	3rd IF	Black	1	6 : 1	.79	.71	.65	.60
42IF303	B	25K : 5K	3rd IF	Black	1	7 : 1	1.11	.93	.84	.77

**796kHz**

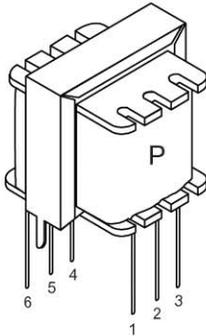
42IF300	B	Osc.	Tuning	Red	2	10 : 1	1.11	.93	.84	.77
42IF100	C	Osc.	Tuning	Red	2	13 : 1	.79	.71	.65	.60
42IF110	C	Osc.	Tuning	Red	2	35 : 1	.63	.57	.52	.48

**10.7 MHz**

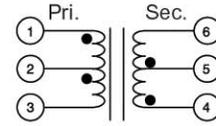
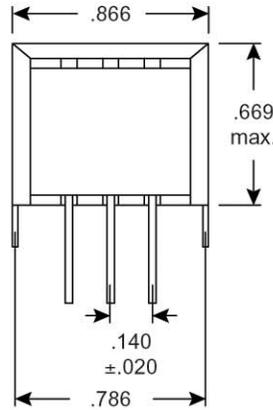
42IF122	C	15K : 300	2nd & 3rd IF	Brown	1	14 : 1	.79	.71	.65	.60
42IF123	C	25K : 4K	1st IF	Green	1	7 : 1	.79	.71	.65	.60

**Variable Frequency (Capacitor-less)**

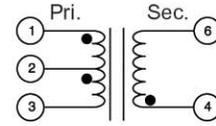
42IF104	C	50K : 500	1st IF	Yel	2	22 : 1	.79	.71	.65	.60
42IF106	C	20K : 5K	3rd IF	Black	2	6 : 1	.79	.71	.65	.60
42IF124	C	15K : 300	2nd & 3rd IF	Org	2	14 : 1	.63	.57	.52	.48



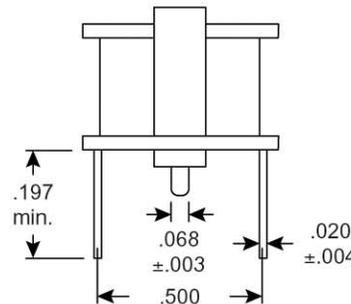
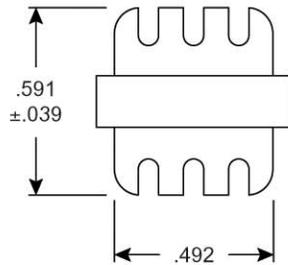
Dimensions (In.)



Schematic: A



Schematic: B



**Specifications:**

- Impedance variation:  $\pm 10\%$  @ 1KHz
- DC resistance tolerance:  $\pm 15\%$
- Frequency response:  $\pm 3\text{dB}$ , 300~3.4KHz @ 1KHz 0dB
- Withstand voltage: 100VAC hipot for 1 minute
- Insulation withstand voltage: 2100VDC for 1 minute
- Insulation resistance:  $> 10\text{M}\Omega$  @ 100VDC
- Storage & operating temperature:  $-30^{\circ}\sim +80^{\circ}\text{C}$
- Core type/size: EI-19
- Waxing: vacuum treatment
- Maximum output: 200mW
- PC leads are soft metal wire and can be adjusted to fit a variety of applications.

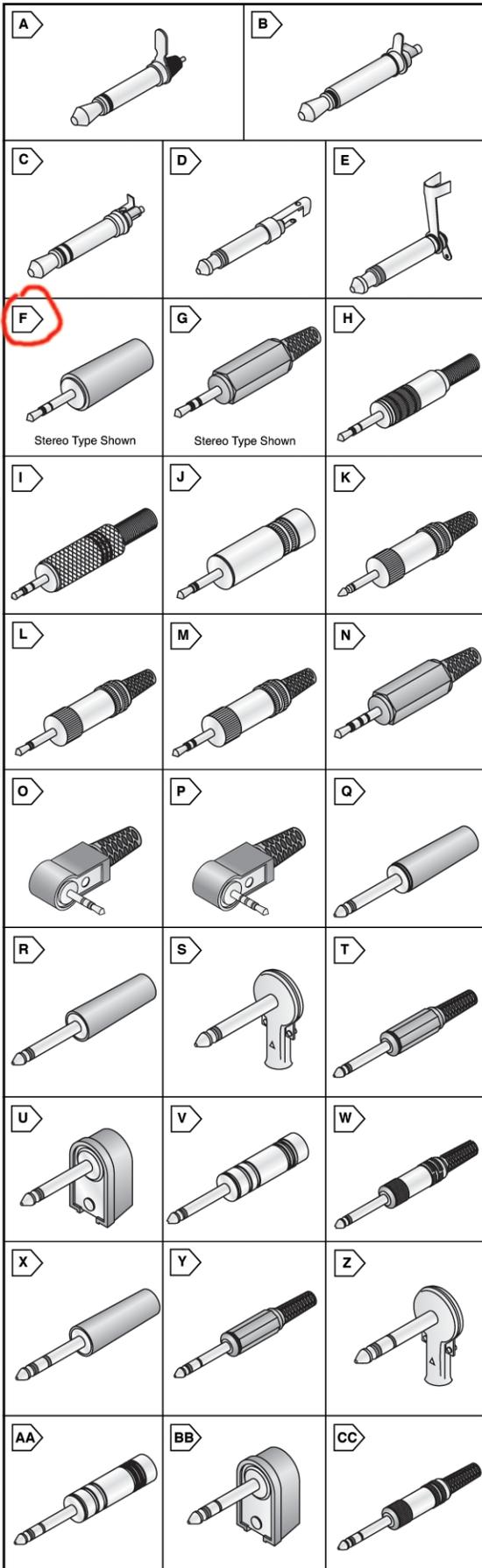
Mouser Stock No.	Impedance ( $\Omega$ )		Resistance ( $\Omega$ )		Turns Pri.:Sec.
	Pri.	Sec.	Pri.	Sec.	
Schematic: A					
42TM001	500	8	26	1.0	8.108:1
42TM002	10K	2K	600	155	2.357:1
42TM003	1.2K	8	80	1	12.432:1
42TM004	280	8	12	1	5.081:1
42TM008	800	8	40	1	10.270:1
42TM011	1.5K	500	120	50	1.807:1
42TM012	10K6	5K	900	500	1.473:1
42TM016	600	600	65	55	1:1
42TM017	25K	600	1K	80	6.627:1
42TM020	600	900	36	50	1.187:1
42TM021	4K	600	244	77	2.603:1
42TM022	1.5K	600	65	45	1.725:1
42TM023	600	300	55	30	1.527:1
42TM026	500	16	50	5	4.875:1
42TM030	100	100	9.25	7.8	1:1
42TM114	4.6K	20	300	2	15.75:1
42TM117	50K	1K	1.2	42	8.726:1
42TM118	400	8	40	1	6.75:1

Mouser Stock No.	Impedance ( $\Omega$ )		Resistance ( $\Omega$ )		Turns Pri.:Sec.
	Pri.	Sec.	Pri.	Sec.	
Schematic: A					
42TM006	20K	1K	900	70	5:1
42TM009	500	500	50	40	1:1
42TM010	350	8	20	1	6.5:1
42TM013	1K	8	75	1	11.486:1
42TM018	10K	10K	550	500	1:1
42TM019	10K	600	600	100	3.771:1
42TM024	10K	500	550	150	---
42TM025	50K	1K	700	150	---
42TM027	1K	2K	85	85	1:1.388
42TM031	600	100	30.1	14.3	2.442:1
Schematic: B					
42TM113	8K	3K	300	200	---

# KOBICONN Phone Plugs



Kobiconn Audio/Video Connectors



## CUSTOM MOLDING PLUGS

- Features:**
- Nickel plated brass contacts
  - Ideal for molding to your cable

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Fig.	Description	Price Each			
			1	10	100	500
171-3206	A	2.5mm mono plug, straight or right angle	.40	.26	.24	.22
171-3203	B	3.5mm mono plug, straight or right angle	.43	.28	.26	.24
171-3204	C	3.5mm stereo plug, straight or right angle	.69	.53	.48	.43
17PP111	E	1/4" mono plug, high rel. 2 conductor	1.08	.83	.76	.69
17PP107	D	1/4" mono plug, standard 2 conductor	.69	.46	.41	.38
17PP112	E	1/4" stereo plug, high rel. 3 conductor	1.37	1.14	1.03	.94

## 2.5MM PLUGS

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Fig.	Description	Price Each			
			1	10	100	500
<b>Mono</b>						
17PP095	F	Economy, black plastic handle, unshielded	.49	.34	.32	.29
17PP053-EX	F	Black plastic handle, plastic threaded bushing, unshielded	.61	.41	.37	.34
171-3304-EX	G	Plastic threaded bushing, .33" (D) x 1.5" (L), unshielded	.61	.41	.37	.34
171-3309	I	Shielded handle spring strain relief	.99	.76	.69	.63
171-0250-EX	O	Right angle with strain relief	.83	.64	.58	.53
<b>Stereo</b>						
171-3305	F	Black plastic handle, unshielded	2.13	1.78	1.62	1.47
171-0025-EX	G	Metal threaded bushing, strain relief	1.35	1.12	.99	.93
171-3306	H	Spring strain relief, shielded	2.38	1.98	1.80	1.64
171-3406	I	Shielded handle with spring strain relief and solder terminals	1.79	1.48	1.35	1.23
171-3325-EX	O	Right angle with strain relief	1.16	.97	.88	.80
<b>4 Conductor</b>						
171-7425	N	Black plastic handle with strain relief	1.57	1.31	1.19	1.08

## 3.5MM PLUGS

†† Insulated sleeve, black strain relief

For quantities of 1000 and up, call for quote.

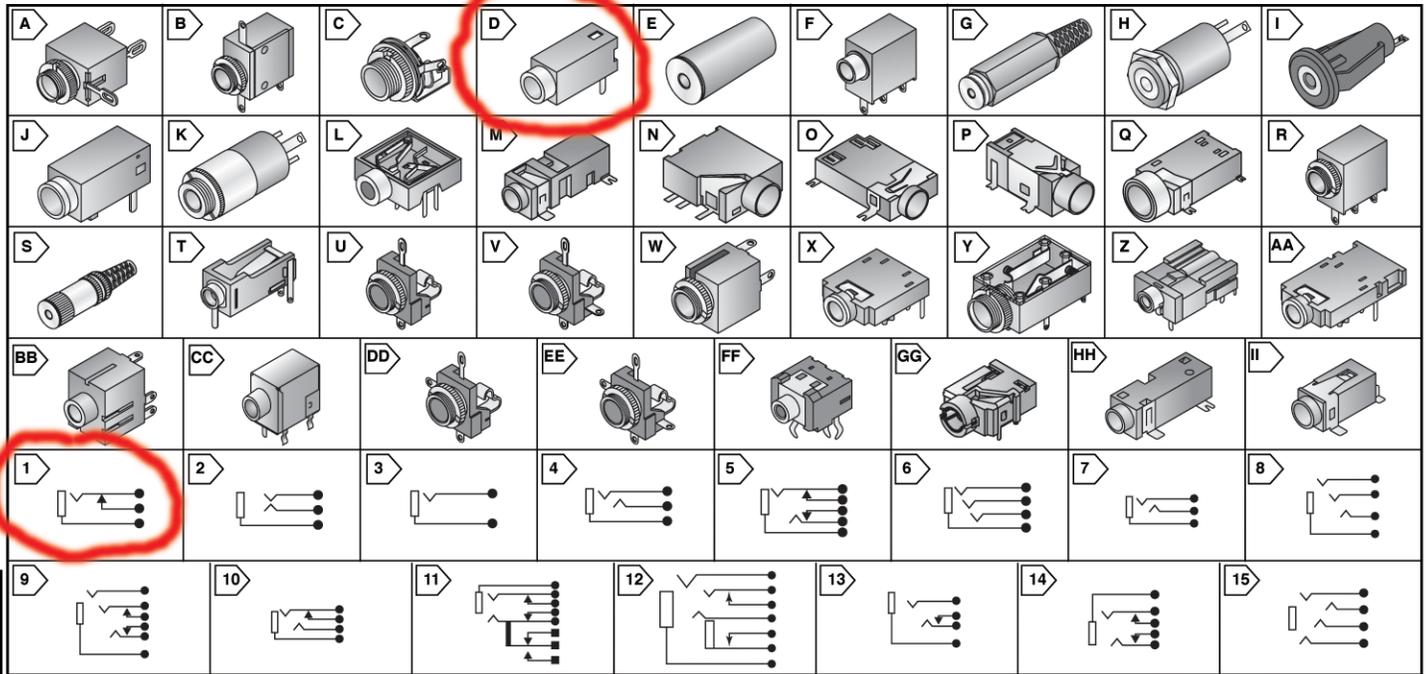
MOUSER STOCK NO.	Fig.	Description	Price Each			
			1	10	100	500
<b>Mono</b>						
17PP103	F	Gray plastic handle with metal threaded bushing, unshielded	.43	.30	.27	.26
17PP101	F	Red plastic handle with threaded metal bushing, unshielded	.65	.44	.40	.36
17PP102	F	Black plastic handle with metal threaded bushing, unshielded	.60	.40	.36	.33
17PP04-EX	G	Plastic threaded bushing, .40" (D) x 2" (L), unshielded	.63	.48	.44	.40
171-3302-EX	G	Metal threaded bushing, .33" (D) x 1.5" (L), unshielded	.81	.62	.56	.51
17PP105	F	Black plastic handle w/ threaded metal bushing, unshield.	.93	.71	.65	.59
171-3310	I	Shielded handle spring strain relief	.91	.70	.64	.58
171-1041	J	Metal plug, insulated sleeve, shielded	1.11	.85	.77	.71
171-3200-EX	K	Black strain relief, insulated sleeve, U.S. tip, shielded	1.31	1.09	.99	.89
171-3201-EX	L	Black strain relief, insulated sleeve, Japan tip, shielded	1.31	1.09	.99	.89
171-0350-EX	O	Right angle with strain relief	.69	.53	.48	.44
<b>Stereo</b>						
171-2035	F	Black plastic handle with threaded bushing	.63	.45	.41	.38
17PP04-EX	G	Hi-rel, molded, plastic threaded bushing w/strain relief, unshield.	1.11	.86	.78	.71
171-3300-EX	M	Plastic bushing screw threads, .37" (D) x .98" (L), shielded	1.64	1.37	1.24	1.13
171-3301-EX	M	Metal bushing screw threads, .37" (D) x .98" (L), shielded	1.82	1.51	1.38	1.25
171-3308-EX	BB	Black plastic body, right angle, unshielded	1.02	.78	.71	.65
171-3311	I	Shielded handle spring strain relief	1.49	1.25	1.14	1.03
<b>4 Conductor</b>						
171-7435-EX	N	Black plastic handle with strain relief	1.53	1.27	1.16	1.05
171-6435-EX	P	Right angle with strain relief	1.74	1.45	1.32	1.20

## 1/4" PLUGS

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Fig.	Description	Price Each			
			1	10	100	500
<b>Mono</b>						
17PP201	Q	Red plastic body, unshielded	1.04	.80	.72	.65
17PP202	Q	Black plastic body, unshielded	1.14	.95	.87	.79
171-2020	R	Black plastic body, unshielded	.94	.73	.66	.60
171-1206	S	Nickel plated, all metal, 228 Switchcraft type, right angle	1.10	.84	.77	.70
171-1204-EX	T	Black plastic body, unshielded	1.08	.88	.80	.72
17PP057-E	U	Black plastic body, right angle, unshielded	1.53	1.28	1.16	1.05
17PP056	V	Metal body, shielded	1.64	1.37	1.24	1.13
171-1200-EX	W	Metal body with red strain relief, shielded	2.35	1.96	1.79	1.62
171-1201-EX	W	Metal body with black strain relief, shielded	2.35	1.96	1.79	1.62
<b>Stereo</b>						
17PP080	X	Black plastic body, unshielded	1.07	.82	.75	.68
171-1304-EX	Y	Black plastic body, unshielded	1.62	1.34	1.22	1.11
171-1306	Z	Nickel plated, all metal, 238 Switchcraft type, right angle	1.70	1.42	1.29	1.17
17PP054	AA	Metal body, shielded	2.21	1.84	1.67	1.52
17PP071-EX	BB	Black plastic body, right angle, unshielded	2.38	1.98	1.80	1.64
171-1300-EX	CC	Metal body with red strain relief, shielded	2.86	2.39	2.17	1.97
171-1301-EX	CC	Metal body with black strain relief, shielded	2.86	2.39	2.17	1.97
171-1302-EX	CC	Metal body with gray strain relief, shielded	2.86	2.39	2.17	1.97

# KOBICONN Phone Jacks



Kobiconn Audio/Video Connectors

## 2.5MM JACKS

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	Fig.	Mtg. Hole (In.)	Ckt. Dia.	Description	Price Each		
					1	10	100
<b>Mono</b>							
161-0125	A	0.18	1	Plastic, N/C swc. w/spring, chassis mnt	.25	.18	.16
16PJ126	B	0.18	1	Economy, enclosed plastic housing, N/C swc., chassis mount	.36	.24	.21
16PJ100	C	0.18	1	Knurled nut, washer, N/C swc., chassis mnt	.60	.45	.41
161-2505	D	0.22	2	Enclosed, open circuit, PCB mount	.50	.39	.35
161-2504	F	0.18	1	Enclosed plastic housing, N/C swc., PCB mnt	.81	.63	.57
16PJ105-EX	E	---	3	Black plastic handle, in-line	.74	.57	.52
16PJ227-EX	G	---	3	Black PVC molded handle w/strain relief, in-line	.80	.61	.55
161-1650-EX	H	0.32	3	Plastic housing, panel mount	.78	.60	.55
161-165SP-EX	I	---	3	2 Cond. Sub-Mini Mono Jack Black, Snap-in	.88	.68	.52
<b>Stereo</b>							
161-2502	J	---	4	3-conductor, PCB mount	1.08	.90	.82
161-7000-EX	K	---	4	Panel mount plastic/metal housing	1.29	.99	.91
161-7100-EX	H	---	4	Plastic housing, panel mount	.87	.67	.61
161-2508-EX	L	---	5	PC mount with two N/C switches - no nut	.91	.69	.64
161-2225-EX	G	---	4	In-line with strain relief	1.29	.99	.91
161-071SP-EX	I	04-07	5	3 Cond Sub-Mini Stereo Jack Black	1.47	1.13	.87
<b>4 Conductor</b>							
161-6425-EX	G	---	6	Black plastic housing w/strain relief	1.10	.85	.77
161-5425-EX	H	---	6	Gray plastic housing	1.10	.85	.77
161-6900-EX	K	---	6	Plastic/metal housing w/hex nut	1.39	1.17	1.06
161-068SP-EX	I	---	8	Sub-Miniature Jack, Grey, Snap-in	1.47	1.13	.87

## 2.5MM SMT JACKS

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	Fig.	Mtg. Hole (In.)	Ckt. Dia.	Description	Price Each		
					1	10	100
<b>Stereo</b>							
161-4123-E	M	0.18	7	Black plastic open circuit	.71	.55	.50
161-3304	M	---	7	Black LCP plastic +85°C temperature	.76	.58	.53
*161-2620	O	0.17	7	Black plastic open circuit	.89	.59	.54
*161-2625	P	0.17	7	Black plastic open circuit	.94	.72	.66
<b>4 Conductor</b>							
161-2828-E	Q	0.22	9	4 conductor closed circuit	1.18	.91	.83
*161-2624	N	0.17	9	4 conductor closed circuit	1.39	1.16	1.06

## 3.5MM SMT JACKS

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	Fig.	Mtg. Hole (In.)	Ckt. Dia.	Description	Price Each		
					1	10	100
<b>Mono</b>							
161-4035-E	HH	0.22	1	Black plastic NC switch	.76	.58	.53
*161-3334	M	0.22	3	Black plastic open circuit	.89	.59	.54
<b>Stereo</b>							
161-4033-E	HH	0.22	4	Black plastic open circuit	.76	.58	.53
161-4034-E	HH	0.22	13	Black plastic NC switch	.76	.58	.53
161-3935-E	II	0.27	4	Black plastic open circuit	.76	.58	.53
*161-3335	N	0.22	14	Black plastic 2 NC switches	.99	.77	.70
<b>4 Conductor</b>							
161-3934-E	II	0.27	15	4 conductor open circuit	.88	.68	.62

## 3.5MM JACKS

\* With threaded bushing † With knurled nut

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	Fig.	Mtg. Hole (In.)	Ckt. Dia.	Description	Price Each		
					1	10	100
<b>Mono</b>							
16PJ135	A	0.27	1	Black plastic, N/C switch w/ spring, chassis mnt	.26	.20	.18
16PJ137	A	0.27	1	White plastic, N/C switch w/ spring, chassis mnt	.26	.20	.18
16PJ136	BB	0.27	1	Fully enclosed blk plastic, N/C switch, chassis mnt	.31	.24	.22
16PJ138	A	0.27	1	Beige plastic, N/C switch w/o spring, chassis mnt	.36	.28	.25
*161-3101	R	0.27	1	Enclosed plastic housing, N/C switch, PCB mount	.75	.57	.53
16PJ011	C	0.27	1	Knurled nut, washer, N/C switch, chassis mount	.79	.61	.55
161-3525	F	0.28	1	Enclosed plastic housing, N/C switch, PCB mount	.93	.71	.64
16PJ012	C	0.27	1	Hex dress nut, washer, N/C switch, chassis mount	.79	.61	.55
16PJ119-EX	E	---	3	Black plastic handle, in-line	.74	.57	.52
16PJ227-EX	G	---	3	Black PVC molded handle with strain relief, in-line	.80	.61	.55
*161-3505	D	0.27	1	Black plastic, closed circuit, PCB mount	.84	.65	.59
16PJ227-EX	S	---	3	Shielded handle with black strain relief, in-line	1.39	1.16	1.05
*161-3400-EX	T	0.27	1	Blk plastic, knurled dress nut, PCB mnt, N/C switch	.77	.60	.54
161-3412-EX	T	0.27	1	Black plastic, PCB mount, N/C switch	.70	.54	.48
161-1640-EX	H	0.32	3	Plastic housing, panel mount	.78	.60	.55
161-064SP-EX	I	04-07	3	4 Cond Mini Jack Grey	1.47	1.13	.87
161-164SP-EX	I	04-07	3	2 Cond Mini Mono Jack Black	.88	.68	.52
161-MJ153-EX	C	---	2	2 Cond Mini Mono Jack Closed Circuit	1.44	1.11	.85
161-MJ080-EX	U	---	3	2 Cond Mini Mono Jack Open Circuit	1.40	1.08	.83
161-MJ081-EX	V	---	2	2 Cond Mini Mono Jack Closed Curcuit	1.59	1.22	.94
<b>Stereo</b>							
†161-3402	A	0.27	4	Black plastic, open circuit, chassis mount	.43	.33	.30
†161-3502	W	0.27	4	Black plastic, solder term, open circuit, chassis mnt	.92	.70	.63
161-3504	X	0.27	5	2-SPST N/C switches, PCB mount	.89	.69	.62
*161-3501	Y	0.27	4	Black plastic, open circuit, with nut, PCB mount	1.26	.97	.87
*161-3100-EX	G	---	4	Black PVC molded handle with strain relief, in-line	1.16	.96	.88
161-3540	R	0.32	5	2-SPST N/C switches, PCB mount	1.32	1.10	.99
161-3541	R	0.32	5	2-SPST N/C switches, PCB mount, isolated bushing	1.41	1.18	1.07
161-3300-EX	S	---	4	Shielded with black strain relief, in-line	1.52	1.27	1.15
16PJ108-EX	Z	0.27	10	Black plastic housing, closed circuit, PCB mount	1.23	1.03	.94
*161-3500	Y	0.27	10	Black plastic, 1-SPST N/C swc., with nut, PCB mnt	1.42	1.19	1.08
*161-3503-EX	AA	0.27	11	2-SPST N/C switches plus 1-SPDT swc., PCB mnt	1.44	1.20	1.09
*161-3499	Y	0.27	5	Black plastic, 2-SPST N/C swc., with nut, PCB mnt	1.46	1.13	1.03
*161-3507	Y	0.27	4	Black plastic, open circuit, with nut, PCB mount	.71	.47	.43
*161-3508	Y	0.27	5	2-SPST N/C switches, PCB mount	.74	.57	.52
*161-3509	Y	0.27	10	1-SPST N/C switch, PCB mount	.72	.55	.50
161-7300-EX	H	0.32	4	Plastic housing, panel mount	.87	.67	.61
161-7400-EX	K	0.24	4	Panel mount, plastic/metal housing	1.29	.99	.91
161-3551	W	0.27	5	Black plastic 2-SPST N/C switches	1.66	1.39	1.26
161-3552	BB	0.27	5	Black plastic 2-SPST N/C switches	1.48	1.23	1.11
161-3153	CC	0.27	4	Metal shielded open circuit	.69	.47	.43
161-3155	CC	0.27	5	Metal shielded closed circuit	.74	.53	.48
161-MJ082-EX	DD	---	3	3 Cond Mini Stereo Jack Open Curcuit	1.59	1.22	.94
161-MJ083-EX	EE	---	3	3 Cond Mini Stereo Jack Closed Curcuit	1.74	1.34	1.03
161-073SP-EX	I	04-07	5	3 Cond Mini Stereo Jack Black	1.37	1.05	.81
161-MJ2735-E	I	---	12	Stereo, Earphone Jack, PC Mount	.91	.70	.54
161-MJ2735-E	F	---	5	Stereo, Earphone Jack, PC Mount	1.37	1.05	.81
<b>4 Conductor</b>							
161-6435-EX	G	---	6	Black plastic housing w/strain relief	1.10	.85	.77
161-5435-EX	H	0.32	6	Gray plastic housing w/strain relief	1.10	.85	.77
161-7900-EX	K	0.30	6	Plastic/metal housing w/hex nut	1.39	1.17	1.06
*161-5350	GG	0.27	12	Black plastic 1 NC switch, 1SPST NC switch	.99	.77	.70

\* Available on tape & reel as special order. Add /TR to end of P/N.  
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