

SOUTHWEST TECHNICAL PRODUCTS CORPORATION

219 W. RHAPSODY

SAN ANTONIO, TEXAS 78216



A NEW SERVICE FOR THE ELECTRONICS ENTHUSIAST

The Correct Parts

Have you ever attempted to get together the parts needed to build a typical magazine project? We estimate that even in large cities the average person would be lucky to find half of the parts needed, even if he spent a day visiting supply stores. Besides this you would almost need to be an engineer to know if the inevitable substitutes, offered for the parts you want, are workable in the circuit.

Lowest Cost

To overcome this problem and make electronics projects more fun and less of a headache, Southwest Technical Products has been stocking the parts needed for selected projects from Popular Electronics. Since we are buying parts in large quantities and making up many kits of a type, we can generally offer the parts for less cost, in addition to the time saved in hunting.

Projects Not Available Elsewhere

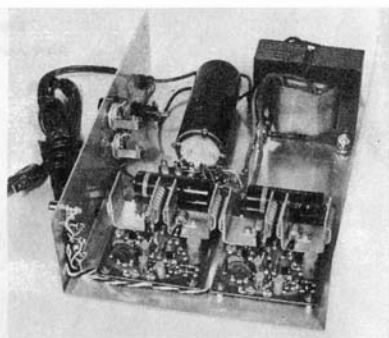
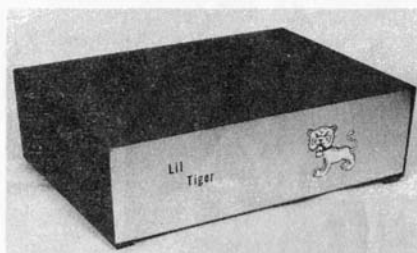
Our service has made possible publication of projects using hard to find parts and new semiconductors that are not generally available. Projects designed here are designed to give the most performance possible and at a reasonable price. Since we stock the parts, no matter what they are, we are not forced to use whatever part is handy at the time. This has allowed features on ultrasonics, reverb systems and other subjects that normally would not have been practical due to the special parts.

Professional Quality

We are not attempting to supply "kits" as some people think of them, with step by step instructions and pictorial drawings. We are supplying a set of parts and assume that you can build the project from the information provided in the magazine article. If this is not the case, we suggest you build a few Heathkits, EICO kits, or Knight kits and gain some experience before ordering one of our projects. It should be noted that all printed circuit boards we sell are completely etched and predrilled. We offer consultation and repair service on projects we designed, provided it was built with our parts kit. We cannot offer this service otherwise.

Fast Service

We can provide fast service on the projects listed in this catalog. We hope we can help to make electronics a more enjoyable hobby for you, and would welcome any suggestions on improving our kits or service.



L'il Tiger Amplifier

Popular Electronics Dec. 67 page 29

Newest out. Biggest Sound...Small Size...Small Price

If you would like to up-date your present audio system with a low cost, superior-quality, cool running, low-distortion transistor power amplifier...try "L'il Tiger". Because of new low cost Motorola complementary transistors, it is now possible for a stereo power amplifier to be built by the kit builder that has the highest quality and at a price that is the lowest. A full 18 watts RMS power per channel or 44 watts IHS music power. Kit is complete with low profile-pre-punched-chassis and power supply. All silicon transistors and transformerless output extends frequency response. Easy to put together.

SPECIFICATIONS:

Power output - 18 watts RMS per channel. Frequency response 20-100,000 Hz at 18 watts. Harmonic distortion - less than 1% at full output. Noise and hum - more than 80 db below a watt.

- #LT1140-C Complete kit size 2 3/4 x 6 3/4 x 9 in.----\$35.00
- #LT-140 One channel amplifier only (board & parts)--- 10.00
- #PS-140 Power supply and cabinet only----- 15.00
- #BD-140 Board only (one channel)----- 2.25

ADD-ON-REVERB

Popular Electronics Jan 68 page 41



How-how would-would you-you like-like to-to incorporate-incorporate a-a controllable-controllable echo-echo-echo-echo.....in your Audio System?

The addition of electronically generated reverberation echo to any audio system gives a new dimension to your music. It transforms your living room into a huge concert hall. Makes your present system up-to-date with expanded possibilities.

Hi-Fi, Stereo, or even added to your musical instrument amplifier. You'll be amazed what it will do to your playing ability. It uses the "Gibbs" (Hammond Organ) type IV spring delay, and is the same type used in the highest priced existing systems and is placed between the preamp and power amp, giving you that full music-hall sound. For more details on reverb springs send for specification sheets.

This add-on reverb is designed to be used with your present power amplifier for use with your

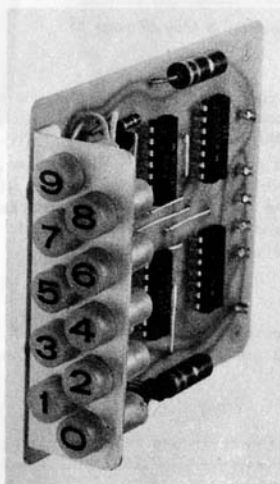
- #139-C Complete kit including board, springs & chassis-----\$18.75
- #139 Board only----- 2.00
- #IV-C Reverb springs only 16 1/2" long-----10.00 (plus postage for 2 lbs.)

All items postpaid in U.S.A. unless otherwise stated.

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DECIMAL COUNTER UNIT

Popular Electronics Feb 68 page 27



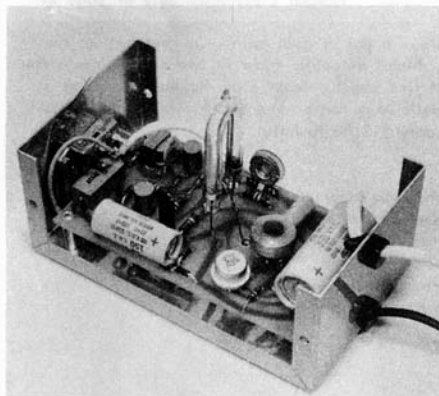
A new breakthrough project. A decimal counting unit for only \$12. Read what Oliver P. Ferrell says:

"This may well be the most important construction project to be published in Popular Electronics in 1968. The DCU ("Decimal Counting Unit") will open the door to a whole new era of project building. Because of its low cost, easy construction, and use of readily available components, Don Lancaster's DCU will encourage the development of unusual Science Fair projects, versatile test equipment, adding machines, computers, etc. The bottleneck of obtaining a low-cost readout has been broken."

#148 Etched and drilled P.C. board-----	\$ 3.00
Set of 10 lamps with plastic covers and spare bulb-----	2.75
#148-C Complete kit of all parts including number decals-----	12.00

NEW PSYCHEDELIC FLASHING LIGHT

Popular Electronics March 68 page 45



- Excites Dancers
- Stops Motion
- Takes Pictures
- Times Engines

One of the most interesting of the new "turned-on" type of lighting effects is strobe lighting. By using a strobe light system flashing at the proper rate in a semi-darkened room, a visual flicker effect similar to that found in old-time movies can be seen as people walk or dance in the light of the flash. This unit can be synchronized with music to match rhythm and beat to bring an effect that makes you truly live with the music. A "way out", unreal effect can be produced. It turns you on.

"Medical opinion concerning the use of strobe lighting in darkened rooms is 'cautionary'. Prolonged use may induce hallucinations or trigger undesired side-effects. It should not be used in the presence of anyone subject to epilepsy."

#149 Etched, drilled, printed circuit board -----	\$ 2.75
#149-C Complete kit of parts, including P.C. board and enclosure (less reflector)-----	12.75

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"MINI-VERB" - AUTO REVERB

Popular Electronics May 67 page 41



An improved auto reverb circuit that uses a new miniaturized unit - suitable for attachment to regular or car stereo rigs. This is an up-dated version of the early model and is made specifically for auto use. Can be hooked to most automobile installations with the greatest of ease. Quality and output has been greatly improved and has been kept high. Will compare with units selling for twice the price.

SPECIFICATIONS:

Offered as a complete kit, this unit has 3 watt output into a 3.2 ohm speaker. Ideal for use with hi-fi rigs; uses Gibbs (Hammond Organ) type VIII delay line. Case measures 2" x 2 3/4". Less than 1% distortion at full output.

#MV-138 Complete kit including special case and board -----	\$16.74
#138 Board only -----	2.25
#138-RV Type VIII reverb unit only -----	6.00

"BEACHCOMBER" COIN/METAL DETECTOR

Popular Electronics July 67 page 27

Probably everyone has had the urge to go searching for treasure - a pot of gold coins - a ring lost on the beach - or coins stuck in the walls of an old house or barn. Metal detectors come in two basic types - the heavy type for finding large objects at great depths, but can't find small objects - or the less expensive single-loop beat-frequency locator as the "Beachcomber". You'll have fun on the beach, or on old battlefields, or at the archery range (finding arrow points). Costs only \$15.00 to build.

SPECIFICATIONS:

Lightweight metal detector specially designed for coins and other small objects. Has all electronic parts, punched case and search loop form, less only handle, magnet wire, and external hardware.

#136 PC board only -----	\$ 2.50
#136-C Kit of parts including PC board and outside loop form-----	15.00

CB AUDIO LEVELER

Popular Electronics Feb 67 page 55

How many times have you had to repeat a message on your CB radio? You were either too far away from the mike or weren't talking loud enough. Now you can come over loud and clear every time you hit the mike by merely adding the audio leveler to your CB rig.

SPECIFICATIONS:

A lot distortion compressor - preamp for use with CB, business or Ham radios. Five silicon transistors with FET control stage. Operates from 12 volts DC. Installs between microphone and radio. Provides 20 db of compression action to keep modulation at 100% even with variations in speech level and mike position.

#133-C Complete kit of parts and PC board -----	\$9.00
#133 Board only-----	1.50

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"SONOLITE"

Popular Electronics May 68 page 27

NEW SIMPLIFIED HIGH-POWER COLOR ORGAN

- Audio-Modulate 500 watts of light.
- Or control the speed of a motor.
- It's all the same to this device.

Doubling in brass as either the basis for a 500-watt color organ or as a general-purpose (up to five amperes) power controller, the "Sonolite" is easy to build and low in cost (approximately \$10 per unit.) For a home color organ, three "Sonolites" are required--one for the low audio frequencies, one for the mid-range, and the third for the high frequencies--plus suitable filtering.

If you have a musical group using electronic instruments, a really "far out" effect can be produced by connecting on "Sonolite" in parallel with a loudspeaker for each instrument, using a high-wattage lamp (preferably one having a built-in reflector) and a different color filter for each instrument, to illuminate the stage. The interplay of color and intensity variations as each instrument is played will produce a "wild" scene.

#147CSL Complete kit of parts, including prepunched chassis and cabinet, fabricoid for covering, knobs, powerline, fuse holder, etc.-----\$10.50

"MUSETTE" COLOR ORGAN

Popular Electronics July 66 page 56

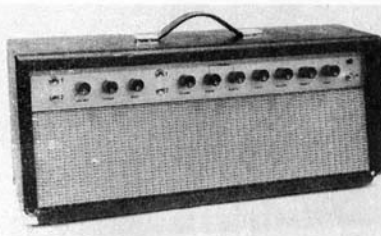
Music to watch by - in color, too. In fact, more colorful than a performance of Swan Lake by Disney's spectacular dancing waters --- more vibrant than any discotheque party you've seen - it's way out. This is a true high-fidelity multichannel musical kaleidoscope for home and dance entertainment. As a five-channel spot light control center, Musette can be used for dance hall or patio decoration, as stage lighting, or as an advertising sales attraction. It is the color organ par excellence, it swings and sways as it interprets your favorite music in colorful kaleidoscopic animation. Add this to your radio, stereo, Hi-Fi, musical amplifier or anything that uses a loudspeaker and has a 10 watt amp.

SPECIFICATIONS:

It can control lamps up to 150 watts on each channel. This unit can be driven from the speaker terminals of any power amplifier of at least 10 watts. The ultimate in color organs, this design is the latest - and at a cost that can't be beat.

#132 Circuit board ----- \$ 3.50
 #132-C Kit of parts - send for list of items supplied----- 40.00

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M/M/M VOICE AND INSTRUMENT AMPLIFIER

Popular Electronics Apr 68 page 43

TREMOLO

REVERB

FUZZ

BASS/TREBLE

A 60-watt MIX-MATCH-MUSICAL solid state guitar and other musical instrument amplifier (handles violins, accordions, bass, banjos, harmonicas, etc.) with the exact controls and features you want. Or, if you are satisfied with your present arrangement, how would you like some "add ons" such as controllable fuzz, tremolo and reverb, that can very easily be hooked up to your system? If you already have a relatively low power amplifier, how about a clean 60 watt booster so you can be really heard?

The entire system is a true professional unit unmatched at many times the low \$85.00 cost. It even includes a high quality straight preamplifier for vocals and voice announcements. (It makes an excellent hi-fi pre-amplifier for any public address system - it incorporates adjustable bass and treble controls - 15 db boost or cut - and on independent volume control.) Comes with unmarked gold finished panel.

SPECIFICATIONS:

The M/M/M (mix, match, musical) instrument amplifier is built on four printed boards with integrated circuits each of which can be made or purchased as a complete kit. The entire system has been tested over a period of eight months by a professional combo. Circuit reliability has proven excellent. It has maximum temperature stability, provides a continuous 60 watt power output, with peak music power of 140 watts. Frequency response is from 20Hz to at least 50kHz, provides a monstrous 60 db dynamic range without overloading or clipping. Complete control of fuzz, tremolo, reverb, bass and treble plus volume control. Has beautiful gold, unmarked panel ready for you to customize and mark as you wish.

PREAMP

#141 Preamp with Tremolo, Fuzz, etched & drilled board only -----	\$ 3.00
#141-C All parts, mounting spacers, controls & etched & drilled board, hardware--	22.00
#141-P Preamp with tone controls only, etched & drilled board only-----	2.50
#141-PC All parts, mounting spacers, controls, hardware, etched & drilled board--	13.00

POWER AMPLIFIER

#141-A Power Amplifier, circuit board only, etched & drilled-----	\$ 2.10
#141-AC All parts, mounting hardware, heat sink & etched & drilled board-----	19.00

REVERB DRIVER AMPLIFIER

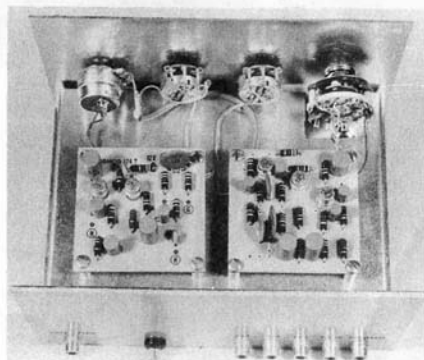
#141-R Reverb Driver Amplifier board only, etched & drilled -----	\$ 2.10
#141-CR All parts, mounting spacer, controls, hardware, etched & drilled board---	6.50
#IV-C Gibbs (Hammond Organ) type IV-C reverb coil unit. Weight 2 lbs.-----	10.00 + postage

POWER SUPPLY, CHASSIS & GOLD PANEL

#141-S Power supply and chassis punched, including transformer, rectifier, filter capacitor, switches, hardware, and gold finished panel ready for marking, this unit weighs 10 lbs, we can ship REA, truck, or freight collect---	\$17.00
#MMM Special combination price - complete amplifier kit with all above marked parts. <u>Fully postpaid.</u> -----	\$85.00

(Matched cabinets for the preamp and for 12" and 15" speakers can be supplied at low cost. Information with your order or upon request.)

All items postpaid in U.S.A. unless otherwise stated.
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"TWO by TWO" PREAMP/TONE CONTROL

Popular Electronics Mar 67 page 69

Modern design techniques make it possible for you to build this modular "Two by Two" stereo or mono preamp and/or tone control either all at once or one circuit at a time.

SPECIFICATIONS:

This is an ideal stereo or mono preamp and/or tone control. This preamp has matching networks for use with musical or speech microphones, magnetic phono cartridges, tape heads, and tuners. It can be used with any power amplifier. It has excellent quality and fidelity. Tone control is on a separate board and features both bass and treble control which will cut or boost more than 15 db. Each section is separate so the user can build for mono or stereo, with or without tone control. Kit includes parts for board only.

#CP-124 Preamp kit (one channel only, less board) -----	\$ 4.50
#E-124 Board for preamp -----	1.50
#CP-124T Tone control kit (one channel only less board) -----	3.25
#124T Tone control board only -----	1.50
#CB-2 Cabinet, gray -----	4.95

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THEREMIN-MUSICAL INSTRUMENT

Popular Electronics Nov 67 page 29

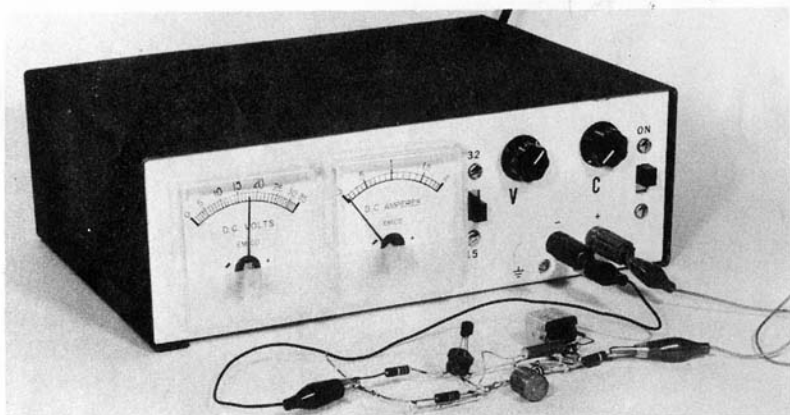
Deluxe - all semiconductor version of the famous tube Theremin. This solid state model connects to hi-fi systems or any guitar, instrument, or hand amplifier. It is ideal for adding that new sound to a band, a solo instrument, or playing for the entertainment of friends. Housed in a beautiful professional looking birch cabinet. This is not a toy but a real musical instrument of the electronic age. This kit comes either complete, less cabinet, or board only.

SPECIFICATIONS:

Cabinet 14 3/4" front, 6 3/4" deep and 3" high, five-ply prefinished birch. Three oscillators, controllable pitch, sustain note, slide from note to note, vibrato effect, tremelo effect, or any combination. Has sufficient power to drive most amplifiers without additional pre amp stages. Front panel has a coat of primer and is ready for painting.

#LT-142 Complete kit with cabinet and antennas (less battery - 9 volt transistor radio type) -----	\$22.50
#T-142 Kit (no cabinet, no antennas) of parts -----	16.50
#E-142 Board only -----	2.50

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REGULATED POWER SUPPLY

Popular Electronics Feb 68 page 53

0-32 volts 0-2 amps - current and volt regulated - automatic current limiter - short proof!

The ideal bench supply for integrated circuits and solid-state experiments. If you have never worked with a current-limiting power supply, you are in for a pleasant surprise. No more ruined rectifiers, fuses, and other valuable components.

#143 Printed circuit board -----	\$ 2.75
#143-C Complete kit including all parts, punched cabinet and meters. Nothing else to buy-----	36.00

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BRUTE 70 HI-FI AMPLIFIER

Popular Electronics Feb 67 page 41

The Rolls Royce of power amplifiers yet it costs less than 50¢ per watt! Build two (they'll fit on one chassis) and you'll have a stereo amplifier that would be hard to beat. If the time has come for you to step-up your outfit you couldn't do better than add this to your rig. Or if you're starting a new outfit, this is it.

SPECIFICATIONS:

Build the stereo version (two channels) and you wind up with 280 watts rated as some manufacturers rate amps! But don't be fooled, it is only 70 watts RMS per channel. Total harmonic distortion is less than 1% at any power level and less than 25/100 of 1% at regularly used levels. Frequency response is flat within 1 db from a low of 5 Hz all the way up to 25 kHz.

#134 Circuit Board only -----	\$ 2.75
#134-1C Kit of parts for one channel amplifier (less board) -----	25.00
#134-2C Kit of parts for two channels complete with two boards -----	55.00

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P A R T S

Although we do not specialize in parts sales, we are offering parts which are used in the construction of our kits to our customers. The following is a list of parts that are available from us. Due to the fact that parts orders are special, we must add a 25¢ handling charge to parts orders which are under \$5.00. Parts orders must also be accompanied by postage amounts.

SEMICONDUCTORS

DIODES

Germanium diodes - 1N34 and similar -----	\$.15 ea.
Silicon bias diodes - (1N645 equivalent) -----	.15 ea.
3.9 volt, 1 watt zener diode -----	.50 ea.
4.7 volt, 1 watt zener diode -----	.50 ea.
18 volt, 1 watt zener diode -----	.50 ea.
MT-32 trigger diode -----	.87 ea.
1N3754 compensating diode -----	.32 ea.

RECTIFIERS

1N1612 - 50 volt PRV @ 5 amps -----	\$1.07 ea.
CB-40 - 400 volt PRV @ 1 amp -----	.40 ea.
MDA-062-3 bridge - 200 volt PRV @ 6 amps -----	4.85 ea.
S-6121 bridge - 100 volt PRV @ 6 amps -----	3.00 ea.
VS-148 bridge - 100 volt PRV @ 2 amps -----	1.00 ea.

TRANSISTORS

All transistors are name brand - first line semiconductors - RCA, GE, TI, Motorola, and Amperex.

TYPE	VOLTAGE	MA.	FREQUENCY	GAIN	PRICE EACH
2N404	-25	200	5MHz	20 min.	\$.45
2N1302	+25	200	5MHz	20 min.	.50
2N4918	-40	3 amps	3MHz	30 min.	1.65
2N4921	+40	3 amps	3MHz	30 min.	1.33
40406	-50	700	100MHz	30 min.	1.36
40407	+50	700	100MHz	40 min.	.81
40408	+90	700	100MHz	40 min.	1.08
40409	+90	700	100MHz	50 min.	1.14
40410	-90	700	100MHz	50 min.	1.64
40411	+90	30 amps	800KHz	35 min.	4.79
MPS2923					.43
MPS3708	+30	30	150MHz	45 min.	.48
MPS3638	-30	500	100MHz	50 min.	.50
MPS6530	+60		390MHz	40 min.	.72
MPS6533	-40		420MHz	40 min.	.78
MPS6554	+35		30MHz	200 min.	.63
MPS6566	+60		220MHz	100 min.	.57
TIP-24	-70	1.5 amps	10MHz	19 min.	1.50

SCR's

2N3528	330Vrm @ 5 amps -----	\$1.63 ea.
C106Y2	30Vrm @ 2 amps -----	.90 ea.

FET

TIS-58	Silicon N channel FET -----	.99 ea.
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All items on this page plus postage.

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IC's

MC715P - Dual - three input gate -----	\$1.00 ea.
MC724P - Quad - two input gate -----	1.08 ea.
MC789P Hex inverter -----	1.08 ea.
MC790P Dual J-K flip flop -----	2.00 ea.
uL900 Buffer (inverting) -----	.80 ea.
uL914 Dual two input gate -----	.80 ea.

CAPACITORS

ELECTROLYTIC CAPACITORS

These are high quality epoxy case, with epoxy end seal type capacitors. Completely sealed type construction eliminates loss of electrolyte and reduction of capacity with age. All are single ended except those denoted with an *.

CAPACITY	VOLTAGE	SIZE	PRICE
4000 mfd *	6	2 1/4 x 3/4 dia.	\$1.43 ea.
4000 mfd	50	3 1/2 x 1 7/16 dia.	3.00 ea.
2500 mfd	75	3 1/2 x 1 7/16 dia.	3.00 ea.
1000 mfd *	25	2 1/4 x 3/4 dia.	1.43 ea.
1000 mfd *	3	1 1/2 x 7/16 dia.	.65 ea.
500 mfd	25	1 3/16 x 7/8 dia.	.73 ea.
300 mfd	6	1 x 1/2 dia.	.51 ea.
200 mfd *	15	1 1/8 x 1/2 dia.	.55 ea.
200 mfd	6	5/8 x 3/8 dia.	.30 ea.
100 mfd	15	5/8 x 3/8 dia.	.30 ea.
50 mfd	25	5/8 x 3/8 dia.	.30 ea.
50 mfd	15	1/2 x 3/8 dia.	.26 ea.
30 mfd	25	1/2 x 3/8 dia.	.26 ea.
30 mfd	15	3/8 x 5/16 dia.	.23 ea.
30 mfd	6	3/8 x 1/4 dia.	.20 ea.
20 mfd *	350		.87 ea.
10 mfd	25	3/8 x 5/16 dia.	.23 ea.
10 mfd	15	3/8 x 1/4 dia.	.20 ea.
10 mfd *	150		.63 ea.
5 mfd	15	3/8 x 1/4 dia.	.20 ea.

CAPACITORS-DISC CERAMIC

.22 mfd	10	3/8 dia.	\$.30 ea.
.1 mfd	10	3/8 dia.	.22 ea.
.05 mfd	50	1/2 dia.	.16 ea.
.02 mfd	50	1/2 dia.	.16 ea.
.01 mfd	50	3/8 dia.	.15 ea.
.005 mfd	1 KV	5/8 dia.	.15 ea.
.005 mfd	50	3/8 dia.	.15 ea.
.001 mfd	1 KV	1/4 dia.	.12 ea.
330 pf	500	1/4 dia.	.15 ea.
4.7 pf	500	1/4 dia.	.15 ea.

MYLAR CAPACITORS

High quality tubular, dipped P-C mounting type.

CAPACITY	VOLTAGE	LEAD CENTER	PRICE
.15 mfd	200	1 inch	\$.22 ea.
.10 mfd	200	.85 inch	.22 ea.
.068 mfd	200	.75 inch	.18 ea.
.047 mfd	200	.6 inch	.18 ea.
.02 mfd	200	.45 inch	.16 ea.

All items on this page plus postage.

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POLYSTYRENE CAPACITORS

High quality capacitors for use where stability is a must. Axial lead type.

CAPACITY	VOLTAGE	SIZE	PRICE
10,000 pf	33	5/8 x 1/4 dia.	5 .22 ea.
9,100 pf	33	5/8 x 1/4 dia.	.22 ea.
3,300 pf	33	3/8 x 3/16 dia.	.20 ea.
1,000 pf	160	5/16 x 1/8 dia.	.20 ea.
820 pf	160	7/16 x 3/16 dia.	.18 ea.
390 pf	160	3/8 x 1/4 dia.	.20 ea.
100 pf	600	7/16 x 3/16 dia.	.16 ea.

TRANSFORMERS

Here is a list of power and audio transformers used in kits such as the Brute 70, L'il Tiger, Power Supply, and Beachcomber.

- #P-3154 Power transformer, Primary 115 volt cycle. Secondary 62 volt centertapped @ 3 amps, as used in Brute 70. --- 9 lbs. ----- \$12.00 ea.
- #P-32-2 Power transformer, 115 volt primary. Secondary 32 volt @ 2 amps and 40 volt secondary at 20 mills. As used in bench power supply ----- 2 1/2 lbs. ----- 5.50 ea.
- #P-32 Power transformer, 115 volt 60 cycle primary. Secondary 34 volts @ 1.5 amps. As used in L'il Tiger ----- 2 1/2 lbs. ----- 5.50 ea.
- #T-185 Power transformer, 115 volt primary 60 cycles, secondary 360 volt center tapped @ 40 ma. and 6.3 volt @ .6 amps. As used in Mule Box ----- 1 1/2 lbs. ----- 7.00 ea.
- #36P-9 Transformer, primary 115 volts, 6.3 volt secondary @ .6 amps. As used in electric dice game. ----- 1/2 lb. ----- 1.57 ea.
- #TT10-2 Audio transformer, primary 10K, secondary 2K, 1/2 inch square 50 mw interstage type. As used in radio control receiver ----- 2 oz. ----- .85 ea.
- #KX305 Audio transformer. Transistor output: primary 500 ohm c.t. to 8 ohm secondary @ 150 mw. As used in Beachcomber --- 2 oz. ----- .85 ea.
- #TC 1600 Modulation choke, 300 mw 1600 ohm c.t. May be used to modulate up to 1/2 watt RF output. As used in radio control transmitter ----- 3 oz. ----- 1.00 ea.
- #UCL-1 Head Set, lightweight, under-the-chin type. Driver in center with sound tubes to both ears. 120 ohms impedance with PL-55 plug. This is a very comfortable, good sounding headset that works beautifully with transistor circuits. Rugged nylon construction. ----- 2 oz. ----- 5.50 ea.

METERS

- 0-35 volt D.C. volt meter. As used in the short-proof power supply. Easy one hole mounting. 3 1/2 inch meter, large numbers, easy to read --- \$2.60 ea.
- 0-2 amp D.C. ammeter. As used in the short-proof power supply. Easy one hole mounting. 3 1/2 inch meter, large numbers, easy to read ----- 2.40 ea.
- 0-1 Milliamp D.C. edge mount meter. 2 7/8 inch wide, 3/4 inch high, 1 5/8 inch deep. As used in the IC-67 metal locator spring clip mount ----- 4.05 ea.

•All items on this page plus postage.

•Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas

TRANSDUCERS

Ultrasonic type as used in kit #112 and #119. This is an excellent unit. Almost twice as sensitive as type originally used on the ultrasonic sniffer. Mechanical construction provides 4 to 6 KHz band width without tuning coil.

#E-40 40 KHz type----- 1 oz.----- \$3.50 ea.
#E-25 25 KHz type----- 1 oz.----- 3.50 ea.

#TR-7 Massa Cohu, ultrasonic microphone as used in original sniffer.

Not as sensitive as above, but fine for use where maximum possible sensitivity is not required or where low cost is important.

----- 1 oz.----- 1.00 ea.

#3E-027-1 Tuning coils. 15 to 47 Mhy with 10% tap as used in the ultrasonic projects. Used for tuning or oscillator coil. 5/8

square x 3/4 high shielded can----- 1 oz.----- 2.00 ea.

RESISTORS

#X-201 Trimmer resistors (specify resistance). Small 1/2 inch dia.

circuit board type with knob. Rated at 1/8 watt. Available

in 100, 250, 1000, 5000, 10000, 25000, and 50000 ohm values ----- \$.60 ea.

#R-10 Resistors (specify value). 1/2 watt 10% carbon resistors. Available

in the following sizes: 10, 39, 47, 68, 100, 220, 330, 470, 1K, 1.5K, 2.2K, 3.3K, 4.7K, 6.8K, 10K, 15K, 22K, 27K, 33K, 47K, 100K, 330K, 470K, and 1 Meg. ohms-----

.08 ea.

#R-11 Resistors (specify value). 1/4 watt carbon 10%. Available in

following values: 27, 100, 220, 470, 1K, 2.2K, 4.7K, 10K,

27K, 33K, 47K, and 1 Meg ohms----- .10 ea.

#R-12 Resistors (specify value). 1 watt carbon resistors 10%. Available in

following values: 33, 39, 330, and 18K ohm----- .12 ea.

#R-15 5 watt 20 ohm resistor----- .25 ea.

#R-19 (Specify value). 10 watt resistors in values of .27 and .33 ohms----- .36 ea.

#R-22 Resistor 50 watt 10 ohm----- .95 ea.

#8800-4 Transmounts, plastic spacers that fit between TO-5 transistor can

and circuit board. Gives stable mount with spacing to prevent

heat damage.----- .05 ea.

All items on this page plus postage.

Southwest Technical Products 219 W. Rhapsody, San Antonio, Texas 78216