

IEEE JAPAN DIRECTORY 1967-1968

Although all information has been obtained from current questionnaires, IEEE cannot accept responsibility for accuracy. Bold-faced listings indicate products manufactured for export. SERVICES section begins on page 60 and ALPHABETICAL INDEX on page 61. The latter lists complete sales-office addresses in Japan, U.S.A., and Europe for all firms listed in the product sections. Use Reader Service Coupon on page 60 to request more information, or contact firms directly mentioning the IEEE JAPAN DIRECTORY. Firms not included failed to submit questionnaires.

Aerospace Equipment (Communications, Navigation, Test)

Japan Vacuum Engineering Co., Ltd.
Kobe Industries Corp.
Nippon Electric Co., Ltd., 7-15 Shiba
Gochome, Minato-ku, Tokyo (Cable:
Microphone); 200 Park Ave., New
York, N.Y. 10017 (Tel: MO 1-3420);
80 rue de Namur, Bruxelles 1, Belgique
(Tel: 12-74-61)
Showa Musen Kogyo Co., Ltd., 6-5-5
Togoshi, Shinagawa-ku, Tokyo (Cable:
Showamusen)

Amplifiers

DX Antenna Co., Ltd.
Foster Electric Co., Ltd., 512 Miyazawa-
machi, Akishima-city, Tokyo (Cable:
Foster Akishima); 230 N. Michigan
Ave., Chicago, Ill.
Fujitsu Limited
Ikegami Tsushinki Co., Ltd.
Kobe Industries Corp.
Nippon Electric Co., Ltd., 7-15 Shiba
Gochome, Minato-ku, Tokyo (Cable:
Microphone); 200 Park Ave., New
York, N.Y. 10017 (Tel: MO 1-3420);
80 rue de Namur, Bruxelles 1, Belgique
(Tel: 12-74-61)
Nippon Trumpet Trading Co., Ltd.
(AC/DC)
Pioneer Electronic Corp., 15-5 Nishi 4-
chome Ohmori, Ohta-ku, Tokyo (Cable:
Pioneer); 140 Smith St., Farmingdale,
N.Y. 11735 (Tel: 516-694-7720); 59
Forch Strasse, 8032 Zurich, Switzer-
land (Tel: 477565)
Sansui Electric Co., Ltd., 460 Izumi-cho,
Suginami-ku, Tokyo (Cable: San-
suiElec)
Sony Corp., 351 Kitashinagawa-6, Shina-
gawa-ku, Tokyo (Cable: Sonycorp)
Toa Electric Co., Ltd.
Tokyo Cosmos Electric Co., Ltd.
Tokyo Shibaura Electric Co., Ltd.
(Toshiba), 1-1 Uchisaiwaicho, Chiyoda-
ku, Tokyo (Cable: Toshiba); 530 Fifth
Ave., New York, N.Y. 10036 (Tel:
587-5471); Berliner Allee 26, Duessel-
dorf 1, Germany (Tel: 29648-9)
Yokogawa Electric Works, Ltd.

Antennas and Accessories

DX Antenna Co., Ltd.
Fujitsu Limited

Furukawa Electric Co., Ltd.
Kobe Industries Corp.
Nippon Electric Co., Ltd., 7-15 Shiba
Gochome, Minato-ku, Tokyo (Cable:
Microphone); 200 Park Ave., New
York, N.Y. 10017 (Tel: MO 1-3420); 80
rue de Namur, Bruxelles 1, Belgique
(Tel: 12-74-61)
Tokyo Shibaura Electric Co., Ltd.
(Toshiba), 1-1 Uchisaiwaicho, Chiyoda-
ku, Tokyo (Cable: Toshiba); 530
Fifth Ave., New York, N.Y. 10036
(Tel: 587-5471); Berliner Allee 26,
Duesseldorf 1, Germany (Tel: 29648-9)
Yokowo Mfg. Co., Ltd.

Attenuators

Anritsu Electric Co., Ltd., 4-12-20 Min-
ami-Azabu, Minato-ku, Tokyo (Cable:
Anritdenki)
DX Antenna Co., Ltd.
Hitachi Ltd.
Nippon Electric Co., Ltd., 7-15 Shiba
Gochome, Minato-ku, Tokyo (Cable:
Microphone); 200 Park Ave., New
York, N.Y. 10017 (Tel: MO 1-3420);
80 rue de Namur, Bruxelles 1, Belgique
(Tel: 12-74-61)
TDS Electronics Co., Ltd., Apond Bldg.,
1-7-12 Soto-Kanda, Chiyoda-ku, Tokyo
(Cable: Tdselectronics)
Takeda Riken Industry Co., Ltd., 285
Asahi-cho, Nerima-ku, Tokyo (Cable:
Tritronics)

Audio Equipment

Chiyoda Electronic Co., Ltd.
Foster Electric Co., Ltd., 512 Miyazawa-
machi, Akishima-city, Tokyo (Cable:
Foster Akishima); 230 N. Michigan
Ave., Chicago, Ill.
Fujitsu Limited
Hayakawa Electric Co., Ltd., Abeno-ku,
Osaka (Cable: Labomet Osaka); Sharp
Electronics Corp., 178 Commerce Rd.,
Carlstadt, N.J. (Tel: 201-933-4200);
Hohe Bleichen 16, 2 Hamburg 36,
Germany
Nippon Electric Co., Ltd., 7-15 Shiba
Gochome, Minato-ku, Tokyo (Cable:
Microphone); 200 Park Ave., New
York, N.Y. 10017 (Tel: MO 1-3420);
80 rue de Namur, Bruxelles 1, Bel-
gique (Tel: 12-74-61)
Oki Electric Industry Co., Ltd.
Osaka Onkyo Co., Ltd., 5-32 Ohmiya
Nishinocho, Asahi-ku, Osaka (Cable:

Onkyo Osaka); JEG, Stegstrasse 34,
6000 Frankfurt/M., Germany (Tel:
61-35-95)

Pioneer Electronic Corp., 15-5 Nishi 4-
chome Ohmori, Ohta-ku, Tokyo (Cable:
Pioneer); 140 Smith St., Farmingdale,
N.Y. 11735 (Tel: 516-694-7720); 59
Forch Strasse, 8032 Zurich, Switzer-
land (Tel: 477565)
Sansui Electric Co., Ltd., 460 Izumi-cho,
Suginami-ku, Tokyo (Cable: Sansui-
elec)
Sony Corp., 351 Kitashinagawa-6, Shina-
gawa-ku, Tokyo (Cable: Sonycorp)
Telecon Corp.
Tokai Communication Apparatus Corp.
Tokyo Cosmos Electric Co., Ltd.
Tokyo Shibaura Electric Co., Ltd.
(Toshiba), 1-1 Uchisaiwaicho, Chiyoda-
ku, Tokyo (Cable: Toshiba); 530 Fifth
Ave., New York, N.Y. 10036 (Tel:
587-5471); Berliner Allee 26, Duessel-
dorf 1, Germany (Tel: 29648-9)

Automatic Control Equipment

Fujitsu Limited, Furukawa Sogo Bldg.,
2-8 Marunouchi, Chiyoda-ku, Tokyo
(Cable: Fujitsulimited); 680 Fifth Ave.,
New York, N.Y. 10019 (Tel: CO
5-5360)
Hokuyo Electric Industrial Co., Ltd.
Izumi Denki Co., Ltd.
Kobe Industries Corp.
Nippon Electric Co., Ltd., 7-15 Shiba
Gochome, Minato-ku, Tokyo (Cable:
Microphone); 200 Park Ave., New
York, N.Y. 10017 (Tel: MO 1-3420);
80 rue de Namur, Bruxelles 1, Belgique
Tel: 12-74-61)
Ohkura Electric Co., Ltd.
Oki Electric Industry Co., Ltd.
Ono Measuring Instrument Co., Ltd.
Shibaura Electronics Co., Ltd.
Takeda Riken Industry Co., Ltd., 285
Asahi-cho, Nerima-ku, Tokyo (Cable:
Tritronics)
Tateisi Electronics Co., Ltd.
Tokyo Seimitsu Co., Ltd.
Yokogawa Electric Works, Ltd.

Batteries and Energy Conversion Devices

Fuji Electrochemical Co., Ltd., Hamagomu
Bldg., 5-11-36 Shimbashi, Minato-ku,
Tokyo (Cable: Noveldrycell); 437 Fifth
Ave., New York, N.Y. 10016 (Tel:

LE 2-5630); Neuerwall 34, Hamburg 36, Germany

Tokyo Shibaura Electric Co., Ltd. (Toshiba), 1-1 Uchisaiwaicho, Chiyoda-ku, Tokyo (Cable: Toshiba); 530 Fifth Ave., New York, N.Y. 10036 (Tel: 587-5471); Berliner Allee 26, Duesseldorf 1, Germany (Tel: 29648-9)

Bio-Medical Equipment

Hayakawa Electric Co., Ltd., Abeno-ku, Osaka (Cable: Labomet Osaka); Sharp Electronics Corp., 178 Commerce Rd., Carlstadt, N.J. (Tel: 201-933-4200); Hohe Bleichen 16, 2 Hamburg 36, Germany

Horiba Instruments, Inc.

Japan Vacuum Engineering Co., Ltd.

Nippon Electric Co., Ltd., 7-15 Shiba Gochome, Minato-ku, Tokyo (Cable: Microphone); 200 Park Ave., New York, N.Y. 10017 (Tel: MO 1-3420); 80 rue de Namur, Bruxelles 1, Belgique (Tel: 12-74-61)

Osaka Onkyo Co., Ltd.

Shibaura Electronics Co., Ltd.

Taiyo Electronics Corp., 6-5-1 Togoshi, Shinagawa-ku, Tokyo (Cable: Apolohagita)

Tateisi Electronics Co., Ltd.

Toa Electric Co., Ltd.

Tokyo Shibaura Electric Co., Ltd. (Toshiba), 1-1 Uchisaiwaicho, Chiyoda-ku, Tokyo (Cable: Toshiba); 530 Fifth Ave., New York, N.Y. 10036 (Tel: 587-5471); Berliner Allee 26, Duesseldorf 1, Germany (Tel: 29648-9)

Yanagimoto Mfg. Co., Ltd.

Yokogawa Electric Works, Ltd.

Blowers and Fans

Nippon Blower Co., Ltd.

Bridges and Decades

Meguro Denpa Sokki K. K.

Nippon Electric Co., Ltd., 7-15 Shiba Gochome, Minato-ku, Tokyo (Cable: Microphone); 200 Park Ave., New York, N.Y. 10017 (Tel: MO 1-3420); 80 rue de Namur, Bruxelles 1, Belgique (Tel: 12-74-61)

Tokyo Shibaura Electric Co., Ltd. (Toshiba), 1-1 Uchisaiwaicho, Chiyoda-ku, Tokyo (Cable: Toshiba); 530 Fifth Ave., New York, N.Y. 10036 (Tel: 587-5471); Berliner Allee 26, Duesseldorf 1, Germany (Tel: 29648-9)

Yokogawa Electric Works, Ltd.

Cabinets and Enclosures

Izumi Denki Co., Ltd.

Pioneer Electronic Corp., 15-5 Nishi 4-chome Ohmori, Ohta-ku, Tokyo (Cable: Pioneer); 140 Smith St., Farmingdale, N.Y. 11735 (Tel: 516-694-7720); 59 Forch Strasse, 8032 Zurich, Switzerland (Tel: 477565)

Settsu Metal Industrial Co., Ltd.

Cable and Wire

DX Antenna Co., Ltd.

Furukawa Electric Co., Ltd.

Hitachi, Ltd.

Tohoku Metal Industries, Ltd., 7-4 Ginza-Higashi, Chuo-ku, Tokyo (Cable: Tohokumetal)

Cameras and Photographic Devices

Canon Camera Co., Inc.

Ikegami Tsushinki Co., Ltd., 20 Motoki, Kawasaki-city (Cable: Iketsu Kawasaki); Ikegami Electronics Industries, Inc., 501 Fifth Ave., New York, N.Y. 10017 (Tel: 867-9209)

Nippon Electric Co., Ltd., 7-15 Shiba Gochome, Minato-ku, Tokyo (Cable: Microphone); 200 Park Ave., New York, N.Y. 10017 (Tel: MO 1-3420); 80 rue de Namur, Bruxelles 1, Belgique (Tel: 12-74-61)

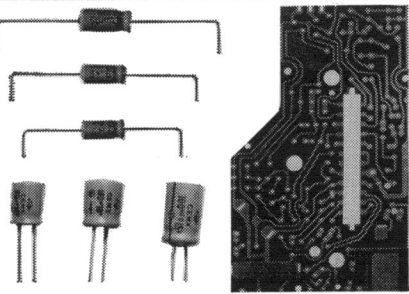
Capacitors, Fixed

Fox Electronics Co., Ltd., 5-32-8 Kamata, Ohta-ku, Tokyo (Cable: Foxdenshi); JEG, Stegstrasse 34, 6000 Frankfurt, Germany (Tel: 61-35-95)

Fujitsu Limited, Furukawa Sogo Bldg., 2-8 Marunouchi, Chiyoda-ku, Tokyo (Cable: Fujitsulimited); 680 Fifth Ave., New York, N.Y. 10019 (Tel: CO 5-5360)


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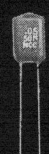
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Type MXT



Type MFK




Type MFL

Type MXT In plastic tube. Capacitance Range: .001 MFD to .22 MFD. Voltages: 100v, 200v, 400v, 600v DC.

Type MFK Dipped flat shape, non-inductive construction. capacitance Range: .01 MFD to .47 MFD. Voltages: 100v, 200v, 400v, 600v DC.

Type MFL Dipped flat shape. Capacitance Range: .001 MFD to .22 MFD. Voltages: 50v, 100v, 200v DC.


METALLIZED POLYESTER FILM CAPACITORS.




Type FNX-H

Type FNX-H Mylar wrapped semioval with epoxy end seal. Capacitance Range: 1 MFD to 10 MFD. Voltages: 100v, 200v, 400v, 600v DC.


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Type TSX



Type TSL

Type TAX MIL-C-26655A hermetically sealed.

Type TSX · TSL Sealed with epoxy resin. Capacitance Range: .22MFD to 330 MFD. Voltages: 3v, 6v, 10v, 15v, 20v, 25v, 35v, 50v DC.

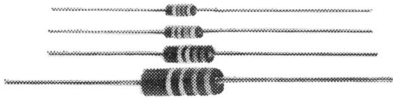
for full details, contact :

MATSUO ELECTRIC CO., LTD.

3-chome, Sennari-cho, Toyonaka-shi, Osaka, Japan
Cable Address "NCC MATSUO" OSAKA

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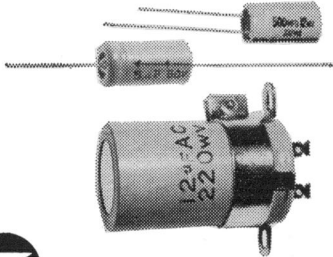
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ELECTROLYTIC CAPACITORS



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TAIYO DENKI CO., LTD.

1-12, 3-chome, Sunamichi, Sakai City,
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Cable address: SOLIDTAIYOHM SAKAI
Telephone: SAKAI (3) 6841

KCK Co., Ltd.

Matsuo Electric Co., Ltd., 3-chome
Sennari-cho, Toyonaka-city, Osaka
(Cable: Ncmatsuo Osaka)

Matsushita Electric Industrial Co., Ltd.,
Electronic Components Div., Osaka;
Matsushita Electric Corp. of America,
200 Park Ave., New York, N.Y. 10017
(Tel: 973-5710); Jungfernstieg 40,
2 Hamburg 36, Germany (Tel: 344743)

Murata Mfg. Co., Ltd.

Nichicon Capacitor, Ltd.

Nippon Chemical Condenser Co., Ltd.

Nippon Electric Co., Ltd., 7-15 Shiba
Gochome, Minato-ku, Tokyo (Cable:
Microphone); 200 Park Ave., New
York, N.Y. 10017 (Tel: MO 1-3420);
80 rue de Namur, Bruxelles 1, Bel-
gique (Tel: 12-74-61)

Nissei Electric Co., Ltd.

Nitsuko Ltd., 260 Kitamikata, Kawasaki-
city (Cable: Kawasaki Nicomm)

Oki Electric Industry Co., Ltd.

Omori Denki Seisakusho Co., Ltd.

Shinyei Co., Ltd.

Soshin Electric Co, Ltd., 1-18-18 Naka-
magome, Ohta-ku, Tokyo (Cable: So-
shin Capacitor)

TDK Electronics Co., Ltd., 2-14-6
Uchi-Kanda, Chiyoda-ku, Tokyo (Cable:
Tdkcore); 81 Wall St., New York, N.Y.
10005 (Tel: 425-7070); 6151 W. Cen-
tury Blvd., Los Angeles, Calif. 90045
(Tel: OR 0-5515)

Taiyo Denki Co., Ltd., 3-1-12 Sunamichi-
cho, Sakai-city, Osaka (Cable: Solid-
taiyohm Osaka)

Teikoku Tsushin Kogyo Co., Ltd.

Tokyo Denki Co., Ltd.

Towa Chikudenki Co., Ltd.

Capacitors, Variable

Alps Electric Co., Ltd., 247 Yukigaya-cho,
Ohta-ku, Tokyo (Cable: Alpsden-
ki); 1 Whitehall St., New York, N.Y.
10004

Fujitsu Limited, Furukawa Sogo Bldg.,
2-8 Marunouchi, Chiyoda-ku, Tokyo
(Cable: Fujitsulimited); 680 Fifth Ave.,
New York, N.Y. 10019 (Tel: CO 5-
5360)

KCK Co., Ltd.

Matsushita Electric Industrial Co., Ltd.,
Electronic Components Div., Osaka;
Matsushita Electric Corp. of America,
200 Park Ave., New York, N.Y. 10017
(Tel: 973-5710); Jungfernstieg 40, 2
Hamburg 36, Germany (Tel: 344743)

Mitsumi Electric Co., Ltd., 1056 Koadachi,
Koma-cho, Kitatama-gun, Tokyo
(Cable: Mparts Tokyochofu); 11 Broad-
way, New York, N.Y. 10004 (Tel: HA
5-3085); Marienstrasse 12, Duessel-
dorf, Germany

Murata Mfg. Co., Ltd.

Nippon Electric Co., Ltd., 7-15 Shiba
Gochome, Minato-ku, Tokyo (Cable:
Microphone); 200 Park Ave., New
York, N.Y. 10017 (Tel: MO 1-3420);
80 rue de Namur, Bruxelles 1, Belgique
(Tel: 12-74-61)

San Esu Electronics Co., Ltd.

Sansei Electric Co., Ltd.

TDK Electronics Co., Ltd., 2-14-6 Uchi-
Kanda, Chiyoda-ku, Tokyo (Cable:
Tdkcore); 82 Wall St., New York, N.Y.
10005 (Tel: 425-7070)

Toyo Communication Equipment Co.,
Ltd.

Ceramics

Fujitsu Limited

Kyoto Ceramic Co., Ltd., 11 Hara-machi,
Nishino-kyo, Nakagyo-ku, Kyoto
(Cable: Kyocera Kyoto) (Including
hermetic seals and transistor beads)

Matsushita Electric Industrial Co., Ltd.,
Electronic Components Div., Osaka;
Matsushita Electric Corp. of America,
200 Park Ave., New York, N.Y. 10017
(Tel: 973-5710); Jungfernstieg 40, 2
Hamburg 36, Germany (Tel: 344743)

Murata Mfg. Co., Ltd.

NGK Spark Plug Co., Ltd., Mizuho-ku,
Nagoya (Cable: Plugngk Nagoya);
4010 Sawtelle Blvd., Los Angeles,
Calif. 90066 (Tel: 213-397-8184)

Nihon Steatite Industry Co., Ltd.

Nippon Electric Co., Ltd., 7-15 Shiba
Gochome, Minato-ku, Tokyo (Cable:
Microphone); 200 Park Ave., New
York, N.Y. 10017 (Tel: MO 1-3420);
80 rue de Namur, Bruxelles 1, Belgique
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Murata Mfg. Co., Ltd.
Risho Kogyo Co., Ltd.
Tamura Seisakusho Co., Ltd. (Tamradio Co., Ltd.)
Tokyo Shibaura Electric Co., Ltd. (Toshiba), 1-1 Uchisaiwaicho, Chiyoda-ku, Tokyo (Cable: Toshiba); 530 Fifth Ave., New York, N.Y. 10036 (Tel: 587-5471); Berliner Allee 26, Duesseldorf 1, Germany (Tel: 29648-9)

Circuits and Modules

Fox Electronics Co., Ltd., 5-32-8 Kamata, Ohta-ku, Tokyo (Cable: Foxdenshi); JEG, Stegstrasse 34, 6000 Frankfurt, Germany (Tel: 61-35-95)
Fujitsu Limited
Kobe Industries Corp.
Matsushita Electric Industrial Co., Ltd., Electronic Components Div., Osaka; Matsushita Electric Corp. of America, 200 Park Ave., New York, N.Y. 10017 (Tel: 973-5710); Jungfernstieg 40, 2 Hamburg 36, Germany (Tel: 344743)
Murata Mfg. Co., Ltd.
Nippon Electric Co., Ltd., 7-15 Shiba Gochome, Minato-ku, Tokyo (Cable: Microphone); 200 Park Ave., New York, N.Y. 10017 (Tel: MO 1-3420); 80 rue de Namur, Bruxelles 1, Belgique (Tel: 12-74-61)
Sanwa Print Seisakusho Co., Ltd.
Shin-ei Industrial Co., Ltd.
TDK Electronics Co., Ltd., 2-14-6 Uchi-Kanda, Chiyoda-ku, Tokyo (Cable: Tdkcore); 82 Wall St., New York, N.Y. 10005 (Tel: 425-7070)
Tokyo Print Industrial Co., Ltd., 782 Shimoishihara, Chofu-city, Tokyo (Tel: 0424-83-5711)
Toyo Communication Equipment Co., Ltd.

Circuits, IC

Fujitsu Limited
Kyodo Electronic Laboratories, Inc., 5153 Kamitsuruma, Sagamihara-City (Cable: Kelic Machida)
Matsushita Electric Industrial Co., Ltd., Electronic Components Div., Osaka; Matsushita Electric Corp. of America, 200 Park Ave., New York, N.Y. 10017 (Tel: 973-5710); Jungfernstieg 40, 2 Hamburg 36, Germany (Tel: 344743)
Nippon Electric Co., Ltd., 7-15 Shiba Gochome, Minato-ku, Tokyo (Cable: Microphone); 200 Park Ave., New York, N.Y. 10017 (Tel: MO 1-3420); 80 rue de Namur, Bruxelles 1, Belgique (Tel: 12-74-61)
Oki Electric Industry Co., Ltd.
Tokyo Denki Co., Ltd.
Tokyo Shibaura Electric Co., Ltd. (Toshiba), 1-1 Uchisaiwaicho, Chiyoda-ku, Tokyo (Cable: Toshiba); 530 Fifth Ave., New York, N.Y. 10036 (Tel: 587-5471); Berliner Allee 26, Duesseldorf 1, Germany (Tel: 29648-9)

Coils and Coil Winders

Fujitsu Limited
Hokuyo Musen Kogyo Co., Ltd.
Mitsumi Electric Co., Ltd., 1054 Koadachi, Komae-cho, Kitatama-gun, Tokyo (Cable: Mparts Tokyochofu); 11 Broadway, New York, N.Y. 10004 (Tel: HA 5-3085); Marienstrasse 12, Duesseldorf, Germany
Nippon Electric Co., Ltd., 7-15 Shiba Gochome, Minato-ku, Tokyo (Cable: Microphone); 200 Park Ave., New York, N.Y. 10017 (Tel: MO 1-3420); 80 rue de Namur, Bruxelles 1, Belgique (Tel: 12-74-61)
TDK Electronics Co., Ltd., 2-14-6 Uchi-Kanda, Chiyoda-ku, Tokyo (Cable: Tdkcore); 82 Wall St., New York, N.Y. 10005 (Tel: 425-7070) (Choke coils)
Teikoku Tsushin Kogyo Co., Ltd.
Tohoku Metal Industries, Ltd., 7-4 Ginza-Higashi, Chuo-ku, Tokyo (Cable: Tohokumetal)
Toko, Inc.
Toyo Conepaper Co., Ltd.

Communications Receivers and Transmitters

Anritsu Electric Co., Ltd., 4-12-20 Minami-azabu, Minato-ku, Tokyo (Cable: Anritdenki)
Fujitsu Limited, Furukawa Sogo Bldg., 2-8 Marunouchi, Chiyoda-ku, Tokyo (Cable: Fujitsulimited); 680 Fifth Ave., New York, N.Y. 10019 (Tel: CO 5-5360)
Ikegami Tsushinki Co., Ltd., 21 Motoki, Kawasaki-city (Cable: Iketsu Kawasaki); Ikegami Electronics Industries, Inc., 501 Fifth Ave., New York, N.Y. 10017 (Tel: 867-9209)
Iwasaki Communication Apparatus Co., Ltd., 2-710 Kugayama, Sugiyama-ku, Tokyo (Cable: Telephiwasaki)
Kobe Industries Corp.
Nippon Electric Co., Ltd., 7-15 Shiba Gochome, Minato-ku, Tokyo (Cable: Microphone); 200 Park Ave., New York, N.Y. 10017 (Tel: MO 1-3420); 80 rue de Namur, Bruxelles 1, Belgique (Tel: 12-74-61)
Nissin Electronics Co., Ltd.
Oki Electric Industry Co., Ltd.

Tamura Seisakusho Co., Ltd. (Tamradio Co., Ltd.)
Tokai Communication Apparatus Corp.
Tokyo Shibaura Electric Co., Ltd. (Toshiba), 1-1 Uchisaiwaicho, Chiyoda-ku, Tokyo (Cable: Toshiba); 530 Fifth Ave., New York, N.Y. 10036 (Tel: 587-5471); Berliner Allee 26, Duesseldorf 1, Germany (Tel: 29648-9)
Toyo Communication Equipment Co., Ltd.

Computer Accessories

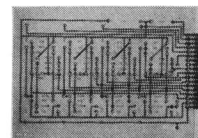
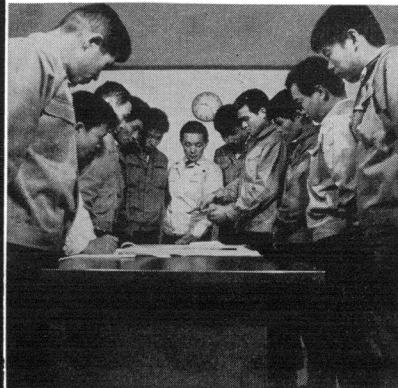
Fujitsu Limited, Furukawa Sogo Bldg., 2-8 Marunouchi, Chiyoda-ku, Tokyo (Cable: Fujitsulimited); 680 Fifth Ave., New York, N.Y. 10019 (Tel: CO 5-5360)
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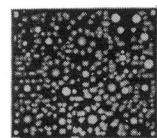
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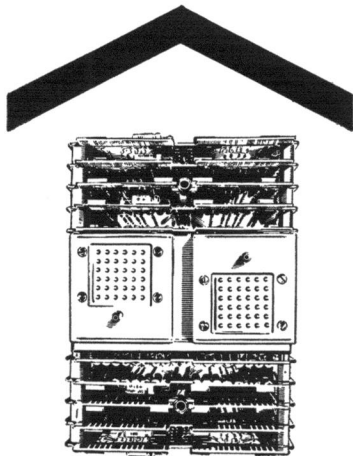


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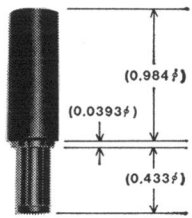
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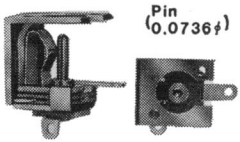
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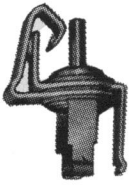
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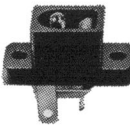


CG-9010





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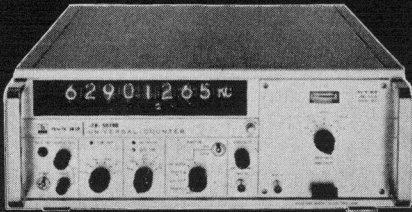
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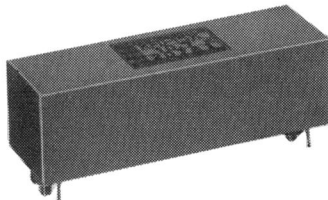
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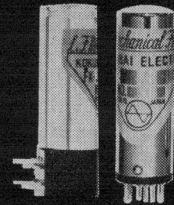
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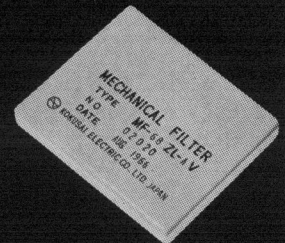
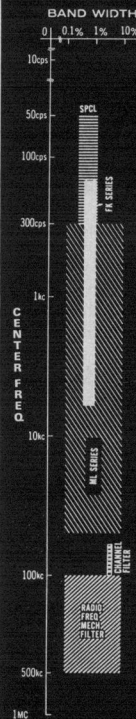
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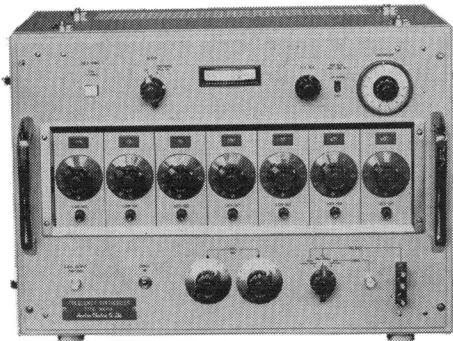


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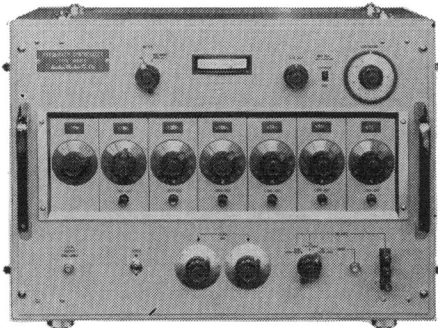
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Tokyo Shibaura Electric Co., Ltd. (Toshiba), 1-1 Uchisaiwaicho, Chiyoda-ku, Tokyo (Cable: Toshiba); 530 Fifth Ave., New York, N.Y. 10036 (Tel: 587-5471); Berliner Allee 26, Duesseldorf 1, Germany (Tel: 29648-9)

Magnets, Magnetic Materials, Magnetic Equipment

Murata Mfg. Co., Ltd.
Neo Ark Science & Technology, Inc., 1-23 Wakamatsu-cho, Fuchu-city, Tokyo (Cable: Neoark Fuchu)
Nichiwa Sangyo Co., Ltd.
Nippon Electric Co., Ltd., 7-15 Shiba Gochome, Minato-ku, Tokyo (Cable: Microphone); 200 Park Ave., New York, N.Y. 10017 (Tel: MO 1-3420); 80 rue de Namur, Bruxelles 1, Belgique (Tel: 12-74-61)

Nippon Ferrite Industrial Co., Ltd.
Sony Corp., 351 Shinagawa-6, Shinagawa-ku, Tokyo (Cable: Sonycorp)
Sumitomo Special Metals Co., Ltd.
TDK Electronics Co., Ltd., 2-14-6 Uchi-Kanda, Chiyoda-ku, Tokyo (Cable: Tdkcore); 82 Wall St., New York, N.Y. 10005 (Tel: 425-7070)

TDS Electronics Co., Ltd., Apond Bldg., 1-7-12 Soto-Kanda, Chiyoda-ku, Tokyo (Cable: Tdselectronics)
Tohoku Metal Industries, Ltd., 7-4 Ginza-Higashi, Chuo-ku, Tokyo (Cable: Tohokumetal)
Toritsu Tsushin Kogyo Co., Ltd., 5-20-8 Nishi-Gotanda, Shinagawa-ku, Tokyo
Yokogawa Electric Works, Ltd.

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KCC Shokai, Ltd., 4-71 Kita-dori, Nada-ku, Kobe (Cable: Wmcc Kobe); 35-60 74th, Jackson Heights, N.Y.
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Osaka Titanium Co., Ltd.
Sumitomo Special Metals Co., Ltd.
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Ikegami Tsushinki Co., Ltd.
Iwasaki Communication Apparatus Co., Ltd., 2-710 Kugayama, Suginami-ku, Tokyo (Cable: Telephiwasaki)
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Japan Electronic Instrument Co., Ltd. (Standards)
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Oki Electric Industry Co., Ltd.
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TDS Electronics Co., Ltd., Apond Bldg., 1-7-12 Soto-Kanda, Chiyoda-ku, Tokyo (Cable: Tdselectronics) (ESR's)
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Tateisi Electronics Co., Ltd.
Tokyo Denpa Co., Ltd. (Tokyo Electric Wave), 5-6-11 Chuo, Ohta-ku, Tokyo (Cable: Tewdenpa)
Tokyo Seimitsu Co., Ltd.
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Vibration Development Co., Ltd.
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 Hoshiden Electronics Co., Ltd.
Nippon Electric Co., Ltd., 7-15 Shiba Gochome, Minato-ku, Tokyo (Cable: Microphone); 200 Park Ave., New York, N.Y. 10017 (Tel: MO 1-3420); 80 rue de Namur, Bruxelles 1, Belgique (Tel: 12-74-61)
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Fujitsu Limited, Furukawa Sogo Bldg., 2-8 Marunouchi, Chiyoda-ku, Tokyo (Cable: Fujitsulimited); 680 Fifth Ave., New York, N.Y. 10019 (Tel: CO 5-5360)

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Tokyo Shibaura Electric Co., Ltd. (Toshiba), 1-1 Uchisaiwaicho, Chiyoda-ku, Tokyo (Cable: Toshiba); 530 Fifth Ave., New York, N.Y. 10036 (Tel: 587-5471); Berliner Allee 26, Duesseldorf 1, Germany (Tel: 29648-9)

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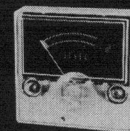
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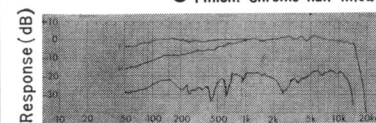
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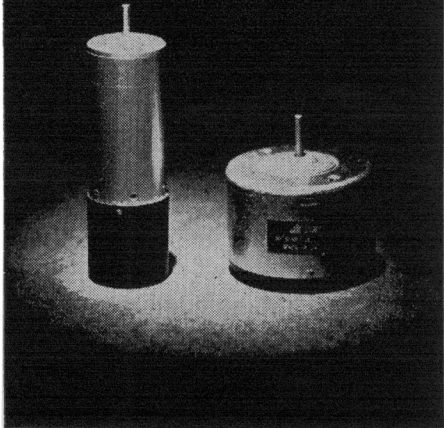
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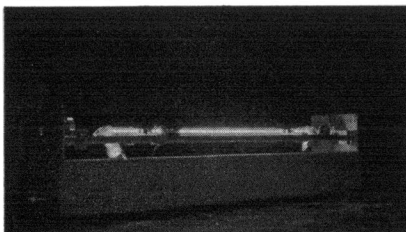
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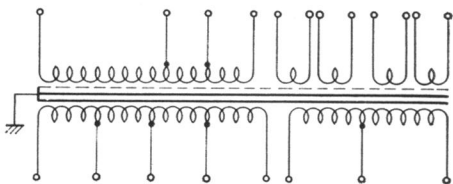
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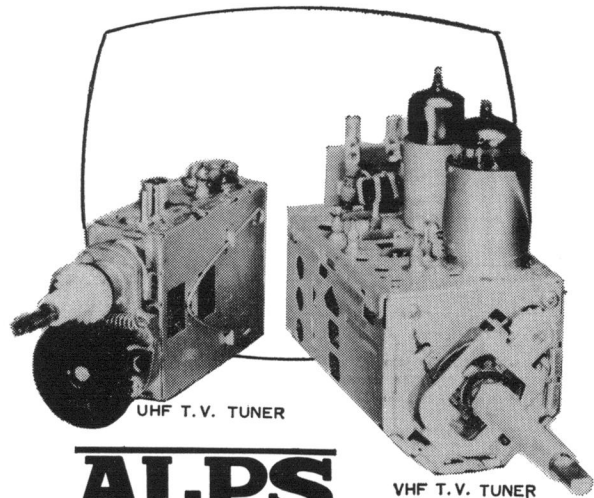
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August 1967
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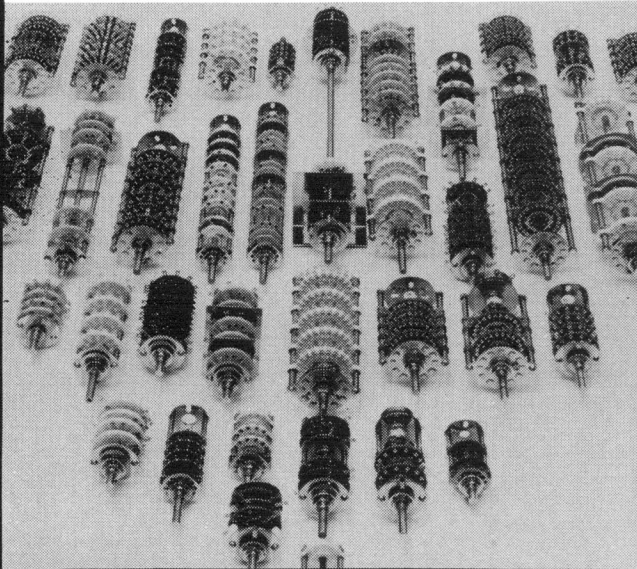
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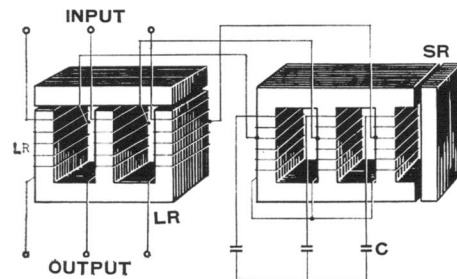
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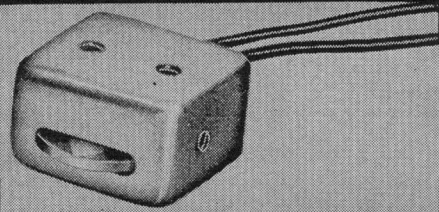
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2. Special alloy for area in contact with tape
3. Guaranteed life-span 3x existing heads!
4. Narrow-gap molding through unique mfg. process
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Track Width	0.6mm	0.508mm	0.6mm	1.05mm
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Gap	1.5 mic.	2 mic.	3 mic.	3 mic.

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Industrial heads for machine tool numerical control—signal readout and applicable track width of 100mm.

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FILM THICKNESS MONITOR TVF-1



◀ Crystal Oscillator Type

SPECIFICATION:

● Stability of Detected Frequency

Within 1c/s (continuous operation for 10 minutes)

Within 5c/s (continuous operation for 1 hour)

* Under a constant temperature and humidity

● Covering Range of Measurement

x1000 scale:.....0—10Kc/s, Min. reading 100 c/s

x100 scale:.....0—1 Kc/s, Min. reading 10 c/s

x10 scale:.....0—100c/s, Min. reading 1 c/s

A single piece of sensing crystal can be utilized until the frequency variation reaches as low as 200Kc/s. This is equivalent to 20 in thickness for SiO₂ (i.e., specific gravity: 2.65). Thus it will be possible to utilize the same sensing crystal for 20 times in case the frequency variation per each time of use is 10Kc/s.

● Power Consumption

AC 100/220V, single phase (50 or 60c/s), 80W (Max.)

● Dimensions and Weight

Indicator assembly: 496mm(W) × 400mm(D) × 179mm(H), 8Kg

Oscillator unit: 77mm(W) × 158mm(D) × 124mm(H), 0.8Kg

Deposition speed meter: 96mm(W) × 150mm(D) × 120mm(H), 0.8Kg

OPTIONAL ATTACHMENT:

• Water-cooled type FW crystal holder

• Plug-in type Deposition speed meter

Newly developed technique on our long experience in quartz crystals and our unique circuit construction enable precise measurement of film thickness (conductor/non-conductor) in the evaporation. With the installed relay, the film thickness can be controlled automatically.

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EXPORT DEPARTMENT:
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CABLE: EXPORTOYOCOM TOKYO

Shinon Electric Co., Ltd., 2-30 Kami Hosoda-cho, Higashiumiyoshi-ku, Osaka; JEG, Stegstrasse 34, 6000 Frankfurt/M., Germany (61-35-95)

Shinyei Co., Ltd., 2-108 Nakayamatedori, Ikuta-ku, Kobe (Shinyeicap Kobe)

Showa Musen Kogyo Co., Ltd., 6-5-5 Togoshi, Shinagawa-ku, Tokyo (Showamusen)

Sonics Corp., 2-12 Kojimachi, Chiyoda-ku, Tokyo

Sony Corp., 351 Kitashinagawa-6, Shinagawa-ku, Tokyo (Sonycorp); 500 W. Florence Ave., Inglewood, Calif. 90307 (OR 8-8141)

Soshin Electric Co., Ltd., 1-18-18 Nakamagome, Ohta-ku, Tokyo (Soshin-capacitor)

Space Mechatronics, Inc., 4-19 Ebie-Kami, Fukushima-ku, Osaka

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Sumitomo Special Metals Co., Ltd., 5-22 Kitahama, Higashi-ku, Osaka (Spec-metalsumit Osaka)

Sun Dengyosha Co., Ltd., 3-1-10 Togoshi, Shinagawa-ku, Tokyo

Susumu Industrial Co., Ltd., 6 Shonouchi-cho, Nakadoji, Shimogyo-ku, Kyoto

TDK Electronics Co., Ltd., 2-14-6 Uchikanda, Chiyoda-ku, Tokyo (Tdkcore); 82 Wall St., New York, N.Y. 10005 (425-7070); 6151 W. Century Blvd., Los Angeles, Calif. 90045 (OR 0-5515)

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Taiyo Denki Co., Ltd., 3-1-12 Sunamichi-cho, Sakai-city, Osaka (Solidtaiyohm Osaka)

Taiyo Electronics Corp., 6-5-1 Togoshi, Shinagawa-ku, Tokyo (Apollhagita)

Takamisawa Electric Co., Ltd., 1-4-35 Koyama, Shinagawa-ku, Tokyo

Takeda Riken Industry Co., Ltd., 285 Asahi-cho, Nerima-ku, Tokyo (Trionics)

Tamura Seisakusho, Ltd., 433 Higashi-Oizumi-machi, Nerima-ku, Tokyo (Nip-pontamradio); Tamradio Co., Ltd., 501 Larree Bldg., 5817 N. Kenmore Ave., Chicago, Ill. 60626 (312-561-3842)

Tanita Mfg. Co., Ltd., 1-14 Maenochi, Itabashi-ku, Tokyo (Tanitamfg)

Tateisi Electronics Co., Ltd., 10 Tsuchido, Hanazono-cho, Ukyo-ku, Kyoto (Omronelco Kyoto); 23-25 E. 26th St., New York, N.Y. 10010 (OR 9-6858)

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Telecon Corp., 5-4-6 Osaki, Shinagawa-ku, Tokyo (Telecontoa)

Tensho Electric Industries Co., Ltd., 1-3-3 Koyama, Shinagawa-ku, Tokyo (Tenshoden)

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Tokai Communication Apparatus Corp., Nakahara 816, Shizuoka-city (Tokaicac

Shizuoka); 500 Fifth Ave., New York, N.Y. 10036

Toko, Inc., 2-1-17 Higashi-Yukigaya, Ohta-ku, Tokyo (Radiocoilab); 350 Fifth Ave., New York, N.Y. 10001 (565-3767)

Tokyo Cosmos Electric Co., Ltd., 1-303 Horinouchi, Suginami-ku, Tokyo (Cosmosdenki)

Tokyo Denki Co., Ltd., 4-9 Nihonbashi-Honcho, Chuo-ku, Tokyo (Electromarcon)

Tokyo Denpa Co., Ltd. (Tokyo Electric Wave), 5-6-11 Chuo, Ohta-ku, Tokyo (Tewdenpa)

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Tokyo Shibaura Electric Co., Ltd. (Toshiba), 1-1 Uchisaiwaicho, Chiyoda-ku, Tokyo (Toshiba); 530 Fifth Ave., New York, N.Y. 10036 (587-5471); 465 California St., San Francisco, Calif. 94104 (434-2340); 141 W. Jackson Blvd., Chicago, Ill. 60604 (427-9382); 165 S. King St., Honolulu, Hawaii 96813 (569-211); Berliner Allee 26, Duesseldorf 1, Germany (29648-9)

Tokyo Vacuum Machinery Co., Ltd., 2-9-23 Yaguchi, Ohta-ku, Tokyo (Vacuumomoya)

Tonegen Electric Mfg. Co., Ltd., 1-37 Furuichi Minami-Dori, Joto-ku, Osaka

Toritsu Tsushin Kogyo Co., Ltd., 5-20-8 Nishi-Gotanda, Shinagawa-ku, Tokyo; Graybar Bldg., Room 556-8, 420 Lexington Ave., New York, N.Y. 10017

Towa Chikudenki Co., Ltd., 81 Ojiri, Hatano-city, Kanagawa - prefecture (Condensertowa)

Toyo Communication Equipment Co., Ltd., Toranomon Bldg., 15 Shiba-Toranomon, Minato-ku, Tokyo (Exportoyocom)

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Toyo Electronics Industry Corp., 21 Sain-Misosaki-cho, Ukyo-ku, Kyoto (Rohm Kyoto); JEG, Stegstrasse 34, 6000 Frankfurt/M., Germany (61-35-95)

Toyo Musen Co., Ltd., 1-8-10 Wakabayashi, Setagaya-ku, Tokyo (Toyoradicator); 938 Merchandise Mart, Chicago, Ill. 60654

Tsuda Electric Meters Co., Ltd., 50 Kinugasacho, Kita-ku, Osaka

Vibration Development Co., Ltd., Konishi Bldg., 1-108 Tenjinbashi-Suji, Kita-ku, Osaka

Watanabe Instruments Corp., 3-19 Nishi-Shinagawa, Shinagawa-ku, Tokyo

Yanagimoto Mfg. Co., Ltd., Kiyamachi Sanjo Sagaru, Nakagyo-ku, Kyoto (Kyoyanagi Kyoto)

Yaskawa Electric Mfg. Co., Ltd., Ohtemachi Bldg., 1-4 Ohtemachi, Chiyoda-ku, Tokyo; Pan Am Bldg., 200 Park Ave., New York, N.Y. 10017; Grurerstrasse 38, 4 Duesseldorf, Germany

Yokogawa Electric Works, Ltd., Musashino-city, Tokyo (Yokogawa); 1995 Palmer Ave., Larchmont, N.Y. 10538 (914-834-3550); Blumenau 48, 2 Hamburg 22, Germany (25-00237)

Yokowo Mfg. Co., Ltd., 7-5 Takinogawa, Kita-ku, Tokyo (Shinebright)

Youth Electric Co., Ltd., 1-25-13 Nishi-Ochiai, Shinjuku-ku, Tokyo