

Sprague Capacitors date 1956 from Radio Electronic Master

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MICA TYPES

- Each Mica Capacitor Section Receives a Radio Frequency Test Before Molding
- Careful Selection and Electrical Grading of Raw Mica Assures Maximum Quality
- Section Foils on Foil Micacs are Connected to Terminals through Special Low-resistance R-F Bonds
- R-F Current Tested for Peak Ratings After Impregnation and Molding

TYPE MS & 1FM MICAS



TYPE MS—SILVERED MICA
(Standard Capacity Tolerance $\pm 5\%$)

MF	Cat. No.	List	MF	Cat. No.	List	MF	Cat. No.	List
500 WVDC, 1000 V Test								
.000005	MS-55	\$.45	.000120	MS-312	\$.45	.001300	MS-213	\$.25
.000010	MS-41	.40	.000130	MS-313	.45	.001500	MS-215	1.35
.000012	MS-412	.40	.000150	MS-315	.45	.001600	MS-216	1.35
.000015	MS-415	.40	.000160	MS-316	.45	.001800	MS-218	1.35
.000018	MS-418	.40	.000180	MS-318	.45	.002000	MS-220	1.35
.000020	MS-42	.40	.000200	MS-320	.45	.002200	MS-222	1.50
.000022	MS-422	.40	.000220	MS-322	.45	.002400	MS-224	1.80
.000024	MS-424	.40	.000240	MS-324	.55	.002500	MS-225	1.80
.000025	MS-425	.40	.000250	MS-325	.55	.002700	MS-227	1.90
.000027	MS-427	.40	.000270	MS-327	.55	.003000	MS-230	2.05
.000030	MS-43	.40	.000300	MS-330	.55	.003300	MS-233	2.05
.000033	MS-433	.40	.000330	MS-333	.55	.003600	MS-236	2.10
.000036	MS-436	.40	.000360	MS-336	.55	.003900	MS-239	2.15
.000039	MS-439	.40	.000390	MS-339	.65	.004000	MS-240	2.15
.000040	MS-44	.40	.000400	MS-340	.65	.004300	MS-243	2.15
.000043	MS-443	.40	.000430	MS-343	.65	.004700	MS-247	2.15
.000047	MS-447	.40	.000470	MS-347	.70	.005000	MS-250	2.25
.000050	MS-45	.40	.000500	MS-350	.70	.005100	MS-251	2.25
.000051	MS-451	.40	.000510	MS-351	.70	.005600	MS-256	2.50
.000055	MS-455	.40	.000560	MS-356	.75	.006000	MS-260	2.40
.000060	MS-46	.40	.000600	MS-360	.80	.006200	MS-262	2.60
.000062	MS-462	.40	.000620	MS-362	.80	300 WVDC, 600 V Test		
.000068	MS-468	.40	.000680	MS-368	.85	.006800	MS-268	2.60
.000070	MS-47	.40	.000700	MS-370	.85	.007000	MS-270	2.60
.000075	MS-475	.40	.000750	MS-375	.90	.007500	MS-275	2.80
.000082	MS-482	.40	.000800	MS-380	.95	.008000	MS-280	2.80
.000091	MS-491	.40	.000820	MS-382	.95	.008800	MS-288	2.80
.000100	MS-31	.45	.000900	MS-390	1.00	.009000	MS-290	3.10
.000110	MS-311	.45	.000910	MS-391	1.00	.009100	MS-291	3.10
.000130	MS-313	.45	.001000	MS-400	1.20	.010000	MS-400	3.40

TYPE 1FM

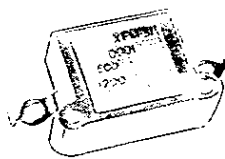
(Standard Capacity Tolerance $\pm 20\%$)

MF	Cat. No.	List	MF	Cat. No.	List	MF	Cat. No.	List
500 WVDC, 1000 V Test								
.000010	1FM-41	\$.25	.000150	1FM-315	\$.20	.001500	1FM-215	\$.30
.000012	1FM-412	.25	.000160	1FM-316	.20	.001600	1FM-216	.30
.000015	1FM-415	.25	.000180	1FM-318	.20	.001800	1FM-218	.40
.000018	1FM-418	.25	.000200	1FM-320	.20	.002000	1FM-220	.40
.000020	1FM-42	.25	.000220	1FM-322	.25	.002200	1FM-222	.40
.000022	1FM-422	.25	.000240	1FM-324	.25	.002400	1FM-224	.50
.000024	1FM-424	.25	.000250	1FM-325	.25	.002500	1FM-225	.50
.000027	1FM-427	.25	.000270	1FM-327	.25	.002700	1FM-227	.50
.000030	1FM-43	.25	.000300	1FM-330	.25	.003000	1FM-230	.50
.000033	1FM-433	.25	.000330	1FM-333	.25	.003300	1FM-233	.60
.000036	1FM-436	.25	.000350	1FM-335	.25	.003600	1FM-236	.60
.000039	1FM-439	.25	.000360	1FM-336	.25	.003900	1FM-239	.60
.000040	1FM-44	.25	.000390	1FM-339	.25	.004000	1FM-240	.55
.000043	1FM-443	.25	.000400	1FM-340	.25	.004300	1FM-243	.60
.000047	1FM-447	.25	.000430	1FM-343	.25	.004700	1FM-247	.60
.000050	1FM-45	.25	.000470	1FM-347	.25	.005000	1FM-250	.60
.000051	1FM-451	.25	.000500	1FM-350	.25	.005100	1FM-251	.60
.000055	1FM-455	.25	.000510	1FM-351	.25	.005600	1FM-256	.65
.000060	1FM-46	.25	.000560	1FM-356	.25	.006000	1FM-260	.65
.000062	1FM-462	.25	.000620	1FM-362	.25	.006200	1FM-262	.65
.000068	1FM-468	.25	.000680	1FM-368	.25	300 WVDC, 600 V Test		
.000070	1FM-47	.25	.000700	1FM-370	.25	.006800	1FM-268	.85
.000075	1FM-475	.25	.000750	1FM-375	.30	.007000	1FM-270	.85
.000082	1FM-482	.25	.000800	1FM-380	.30	.007500	1FM-275	.85
.000091	1FM-491	.25	.000820	1FM-382	.30	.008000	1FM-280	1.00
.000100	1FM-31	.25	.000910	1FM-391	.30	.008800	1FM-288	1.00
.000110	1FM-311	.25	.001000	1FM-400	.30	.009000	1FM-290	1.00
.000130	1FM-313	.25	.001100	1FM-410	.30	.009100	1FM-291	1.00
.000150	1FM-315	.25	.001200	1FM-420	.30	.009500	1FM-300	1.00
.000170	1FM-317	.25	.001300	1FM-430	.30	.010000	1FM-400	1.20

MS and 1FM Dimensions

Catalog Nos.	L x W x T	Catalog Nos.	L x W x T
MS-55 through MS-356	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{4}$	1FM-41 through 1FM-356	$\frac{1}{4} \times \frac{1}{2} \times \frac{1}{4}$
MS-36 through MS-236	$\frac{1}{2} \times \frac{3}{4} \times \frac{1}{2}$	1FM-362 through 1FM-236	$\frac{1}{4} \times \frac{3}{4} \times \frac{1}{2}$
MS-239 through MS-282	$\frac{3}{8} \times \frac{3}{4} \times \frac{1}{2}$	1FM-239 through 1FM-282	$\frac{3}{8} \times \frac{3}{4} \times \frac{1}{2}$
MS-29 through MS-11	$1 \times \frac{1}{2} \times \frac{3}{4}$	1FM-29 through 1FM-11	$1 \times \frac{1}{2} \times \frac{3}{4}$

TYPES XFM, YFM & ZFM



(Standard Capacity Tolerance $\pm 10\%$)

MF	Cat. No.	List
XFM-600 WVDC, 1200 V TEST		
.00005	XFM-45	\$1.20
.0001	XFM-31	1.20
.00015	XFM-32	1.20
.0002	XFM-325	1.20
.00025	XFM-325	1.20
.0003	XFM-33	1.20
.0004	XFM-34	1.20
.0005	XFM-35	1.20
.001	XFM-21	1.20
.0015	XFM-215	1.20
.002	XFM-22	1.30
.0025	XFM-225	1.30
.003	XFM-23	1.45
.004	XFM-24	1.50
.005	XFM-25	1.55
.006	XFM-26	1.80
.007	XFM-27	1.85
.008	XFM-28	1.90
.01	XFM-11	2.15
.02	XFM-12	3.05
.03	XFM-13	4.45

Catalog Nos.	L x W x T
XFM-45 thru XFM-11	$1 \frac{1}{2} \times 1 \frac{1}{4} \times \frac{1}{2}$
XFM-12 thru XFM-13	$1 \frac{1}{2} \times 1 \frac{1}{4} \times \frac{3}{4}$

YFM-1200 WVDC, 2500 V TEST

MF	Cat. No.	List
.00005	YFM-45	1.60
.0001	YFM-31	1.60
.00015	YFM-32	1.60
.0002	YFM-325	1.60
.00025	YFM-325	1.60
.0003	YFM-33	1.60
.0004	YFM-34	1.60
.0005	YFM-35	1.60
.001	YFM-21	1.80
.0015	YFM-215	2.30
.002	YFM-22	2.40
.0025	YFM-225	2.80
.003	YFM-23	3.05
.004	YFM-24	3.05
.005	YFM-25	3.30
.006	YFM-26	3.30
.007	YFM-27	3.45
.008	YFM-28	3.85
.01	YFM-11	5.10

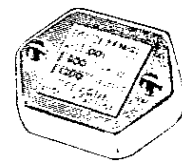
Catalog Nos.	L x W x T
YFM-45 thru YFM-24	$1 \frac{1}{2} \times 1 \frac{1}{4} \times \frac{1}{2}$
YFM-25 thru YFM-11	$1 \frac{1}{2} \times 1 \frac{1}{4} \times \frac{3}{4}$

ZFM-2500 WVDC, 5000 V TEST

MF	Cat. No.	List
.00005	ZFM-45	1.90
.0001	ZFM-31	1.90
.00015	ZFM-32	1.90
.0002	ZFM-325	2.20
.00025	ZFM-325	2.20
.0003	ZFM-33	2.25
.0004	ZFM-34	2.30
.0005	ZFM-35	2.40
.001	ZFM-21	2.80
.0015	ZFM-215	3.55
.002	ZFM-22	4.15
.003	ZFM-23	4.90
.004	ZFM-24	5.65
.005	ZFM-25	6.40

Catalog Nos.	L x W x T
ZFM-45 thru ZFM-22	$1 \frac{1}{2} \times 1 \frac{1}{4} \times \frac{1}{2}$
ZFM-23 thru ZFM-25	$1 \frac{1}{2} \times 1 \frac{1}{4} \times \frac{3}{4}$

TYPES 7FM, 8FM & 9FM



(Standard Capacity Tolerance $\pm 10\%$)

MF	Cat. No.	List
7FM-600 WVDC, 1200 V TEST		
.00005	7FM-45	\$1.45
.0001	7FM-31	1.45
.00015	7FM-315	1.45
.0002	7FM-32	1.45
.00025	7FM-325	1.45
.0005	7FM-35	1.45
.001	7FM-21	1.45
.002	7FM-22	1.65
.0025	7FM-225	1.70
.003	7FM-23	1.85
.004	7FM-24	2.00
.005	7FM-25	2.10
.006	7FM-26	2.20
.008	7FM-28	2.45
.01	7FM-11	2.80
.015	7FM-115	3.05
.02	7FM-12	3.55
.03	7FM-13	4.55
.04	7FM-14	5.85
.05	7FM-15	7.10
.06	7FM-16	8.05

Catalog Nos.	L x W x T
7FM-45 thru 7FM-13	$1 \frac{1}{2} \times 1 \frac{1}{4} \times \frac{1}{2}$
7FM-14 thru 7FM-16	$1 \frac{1}{2} \times 1 \frac{1}{4} \times \frac{3}{4}$

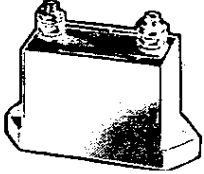
8FM-1200 WVDC, 2500 V TEST

MF	Cat. No.	List
.00005	8FM-45	1.60
.0001	8FM-31	1.60
.00015	8FM-315	1.6

Sprague Mica Capacitors date 1956

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TYPES 1MC & 2MC



(Standard Capacity Tolerance ±5%)

MF	VAC Peak	Cat. No.	List
TYPE 1MC			
.00005	3000	1MC-45	\$12.60
.0001	3000	1MC-31	12.60
.00015	3000	1MC-315	12.60
.0002	3000	1MC-32	12.60
.00025	3000	1MC-325	12.60
.0003	3000	1MC-33	12.60
.0004	3000	1MC-34	12.60
.0005	3000	1MC-35	12.60
.0006	3000	1MC-36	12.60
.0007	3000	1MC-37	12.60
.0008	3000	1MC-38	12.60
.001	3000	1MC-21	12.60
.0015	3000	1MC-215	12.60
.002	3000	1MC-22	12.60
.003	2000	1MC-23	12.60
.004	2000	1MC-24	12.60
.005	2000	1MC-25	12.60
.006	2000	1MC-26	12.60
.007	2000	1MC-27	12.60
.008	1500	1MC-28	12.60
.01	1000	1MC-11	12.60
.015	1000	1MC-115	12.60
.02	1000	1MC-12	14.30
.03	500	1MC-13	14.30
.04	500	1MC-14	14.30
.05	250	1MC-15	14.30
.1	250	1MC-1	15.10

1MC Dimensions $L \times W \times H$
 $2 \times \frac{1}{4} \times 1\frac{1}{2}$

TYPE 2MC

.00005	5000	2MC-45	17.30
.0001	5000	2MC-31	17.30
.00015	5000	2MC-315	17.30
.0002	5000	2MC-32	17.30
.00025	5000	2MC-325	17.30
.0003	5000	2MC-33	17.30
.0004	5000	2MC-34	17.30
.0005	5000	2MC-35	17.30
.0006	5000	2MC-36	17.30
.0007	5000	2MC-37	17.30
.0008	5000	2MC-38	17.30
.001	5000	2MC-21	17.30
.0015	5000	2MC-215	17.30
.002	5000	2MC-22	17.30
.003	3000	2MC-23	17.30
.004	3000	2MC-24	17.30
.005	3000	2MC-25	17.30
.006	3000	2MC-26	17.30
.007	3000	2MC-27	17.30
.008	2000	2MC-28	17.30
.01	2000	2MC-11	17.30
.015	2000	2MC-115	17.30
.02	2000	2MC-12	17.30
.03	1500	2MC-13	17.30
.04	1500	2MC-14	17.30
.05	1500	2MC-15	17.30
.06	1000	2MC-16	18.60
.07	1000	2MC-17	18.60
.08	500	2MC-18	19.20
.1	500	2MC-1	19.20

2MC Dimensions $L \times W \times H$
 $2\frac{1}{4} \times 1\frac{1}{4} \times 1\frac{1}{4}$

TYPES 1CC, 2CC, 3CC & 4CC

(Standard Capacity Tolerance ±5%)

MF	Cat. No.	List
TYPE 1CC		
6000 VAC Peak		
.00005	1CC-45	\$38.20
.000075	1CC-475	40.00
.0001	1CC-31	40.60
.00015	1CC-315	40.60
.0002	1CC-32	40.60
.00025	1CC-325	40.60
.0003	1CC-33	44.35
.0004	1CC-34	44.35
.0005	1CC-35	46.65
.0006	1CC-36	46.65
.0007	1CC-37	46.65
.0008	1CC-38	46.65
.001	1CC-21	46.65
.0015	1CC-215	48.90
.002	1CC-22	48.90
.003	1CC-23	50.60
.004	1CC-24	50.60
4000 VAC Peak		
.005	1CC-25	50.60
.006	1CC-26	51.45
.007	1CC-27	51.45
.008	1CC-28	51.45
.01	1CC-11	51.45
3000 VAC Peak		
.015	1CC-115	51.45
2000 VAC Peak		
.02	1CC-12	51.45
.025	1CC-125	51.80
1500 VAC Peak		
.03	1CC-13	55.75
.04	1CC-14	58.50
.05	1CC-15	60.75
.06	1CC-16	62.80
1000 VAC Peak		
.07	1CC-17	64.25
.08	1CC-18	65.75
.1	1CC-1	68.50

1CC Dimensions $Dia. \times Height$
 $2\frac{1}{8} \times 2\frac{1}{2}$

TYPE 2CC

10,000 VAC Peak		
.00005	2CC-45	65.55
.000075	2CC-475	65.55
.0001	2CC-31	65.55
.00015	2CC-315	65.55
.0002	2CC-32	65.55
.0003	2CC-33	65.55
.0004	2CC-34	65.55
.0005	2CC-35	65.55
.0006	2CC-36	65.55
.0007	2CC-37	65.55
.0008	2CC-38	65.55
.001	2CC-21	65.55
.0015	2CC-215	65.55
.002	2CC-22	65.55
8000 VAC Peak		
.003	2CC-23	65.55
.004	2CC-24	65.55
6000 VAC Peak		
.005	2CC-25	65.55
5000 VAC Peak		
.006	2CC-26	69.15
.007	2CC-27	69.15
.008	2CC-28	69.15
.01	2CC-11	69.15

MF	Cat. No.	List
4000 VAC Peak		
.015	2CC-115	\$ 69.15
3000 VAC Peak		
.02	2CC-12	69.15
.025	2CC-125	72.00
2000 VAC Peak		
.03	2CC-13	73.50
.04	2CC-14	77.80
.05	2CC-15	80.75
.06	2CC-16	83.00
1500 VAC Peak		
.07	2CC-17	85.00
.08	2CC-18	86.50
.1	2CC-1	90.00

2CC Dimensions $Dia. \times Height$
 $3\frac{1}{2} \times 3$

TYPE 3CC

20,000 VAC Peak		
.00005	3CC-45	110.90
.000075	3CC-475	121.00
.0001	3CC-31	121.00
.00015	3CC-315	131.10
.0002	3CC-32	131.10
.0003	3CC-33	131.10
.0004	3CC-34	137.15
.0005	3CC-35	137.15
.0006	3CC-36	137.15
.0007	3CC-37	137.15
.0008	3CC-38	137.15
.001	3CC-21	141.15
15,000 VAC Peak		
.0015	3CC-215	143.20
.002	3CC-22	143.20
12,000 VAC Peak		
.003	3CC-23	151.25
.004	3CC-24	151.25

3CC Dimensions $Dia. \times Height$
 5×4

10,000 VAC Peak

.005	3CC-25	151.25
.006	3CC-26	151.25
.007	3CC-27	151.25
.008	3CC-28	151.25

8000 VAC Peak

.01	3CC-11	151.25
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5000 VAC Peak

.015	3CC-115	151.25
.02	3CC-12	151.25

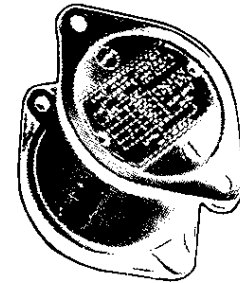
3000 VAC Peak

.025	3CC-125	151.25
.03	3CC-13	151.25
.04	3CC-14	151.25
.05	3CC-15	151.25
.06	3CC-16	158.50

2000 VAC Peak

.07	3CC-17	164.00
.08	3CC-18	172.00
.1	3CC-1	182.00

3CC Dimensions $Dia. \times Height$
 5×4



(Standard Capacity Tolerance ±5%)

MF	Cat. No.	List
TYPE 4CC		
30,000 VAC Peak		

.0001	4CC-31	\$210.30
.00015	4CC-315	210.30
.0002	4CC-32	221.16
.0003	4CC-33	221.16
.0004	4CC-34	221.16
.0005	4CC-35	221.16
.0006	4CC-36	221.16
.0007	4CC-37	221.16
.0008	4CC-38	221.16
.001	4CC-21	229.10

25,000 VAC Peak		
.0015	4CC-215	229.10

20,000 VAC Peak		
.002	4CC-22	229.10
.003	4CC-23	229.10

15,000 VAC Peak		
.004	4CC-24	234.35
.005	4CC-25	242.00
.006	4CC-26	252.25
.007	4CC-27	260.00

12,000 VAC Peak		
.008	4CC-28	260.00
.009	4CC-29	260.00

10,000 VAC Peak		
.01	4CC-11	272.44

8000 VAC Peak		
.015	4CC-115	272.44

6000 VAC Peak		
.02	4CC-12	272.44
.03	4CC-13	272.44

5000 VAC Peak		
.04	4CC-14	272.44
.05	4CC-15	272.44
.06	4CC-16	290.00

4000 VAC Peak		
.07	4CC-17	300.00

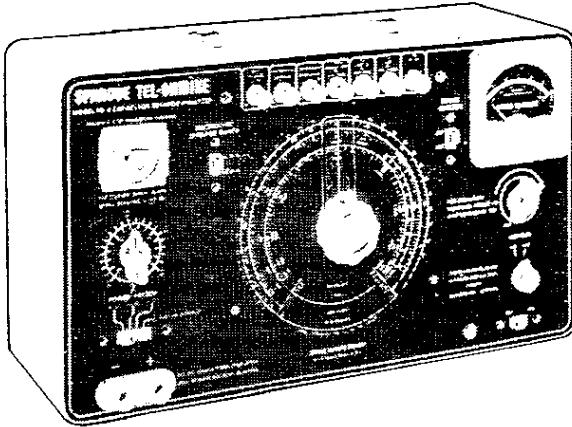
3000 VAC Peak		
.08	4CC-18	308.00
.1	4CC-1	326.00

4CC Dimensions $Dia. \times Height$
 $5 \times 5\frac{1}{4}$

Sprague Capacitors Radio Electronic Master date 1956

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TO-4 TEL-OHMIKE® CAPACITOR-RESISTOR ANALYZER



PRICED SO YOU CAN AFFORD IT!

The handiest instrument you can buy! Modern service shops find it a must. Although moderately priced for radio and television repair shops, it offers you the quality and the accuracy required by the nation's outstanding laboratories.

The TO-4 comes complete with step-by-step instruction manual and capacitor guide.

- **CAPACITANCE BRIDGE** measures up to 2000 mf in five overlapping ranges. The special 1 mmf to 100 mmf range is exclusive with the Sprague Tel-Ohmike.
- **INSULATION RESISTANCE** directly read on large meter up to 20,000 megohms for paper, ceramic, and mica capacitors. No guessing with neon lamps.
- **LEAKAGE CURRENT** of electrolytics measured directly on meter, with exact rated voltage up to 600v. applied from continuously adjustable power supply. Two ranges: 0-6-60 ma. No guessing on eye-width or counting lamp blinks when you use a TO-4!
- **POWER FACTOR** of electrolytic capacitors measured by Wien Bridge up to 55% in three ranges.
- **RESISTANCE BRIDGE** measures from 2.5 ohms to 25 megohms at line frequency.
- **MAGIC-EYE TUBE** simplifies bridge balancing for capacitance, power factor, and resistance measurements.
- **PUSH-BUTTONS** for instant range selection, also discharge capacitors for safety automatically upon release.
- **MODERN CASE** finished in two-tone gray; measures 8⁷/₈" high, 14³/₈" wide, 6¹/₈" deep. Weight only 12¹/₂ pounds.

MODEL TO-4.....115 VAC/50-60 cy.....\$73.50 net
Model TO-4X.....115-230 V/25-60 cy.....\$79.50 net

KT-1 KWIK-TEST® CAPACITOR CHECKER

An **IDEAL** supplement to the TO-4 Tel-Ohmike. With 75 to 100 capacitors in each set, here's a quick, easy way to check them all in a jiffy, for the KT-1 tests capacitors while they're wired in a set. **NO NEED TO REMOVE THEM FROM THE CIRCUIT!** The KT-1 instantly tells you whether or not a capacitor is open, shorted, or intermittent. This is the hottest thing we've ever offered to the service trade!

- Simply press a button and magic eye tube tells you if a capacitor is open, shorted, or intermittent.
- Checks by-pass, blocking, and coupling capacitors from 30 mmf to 2000 mmf, even when capacitor under test is wired in parallel with a resistance as low as 60 ohms. Capacitors between .1 mf and 2000 mf may be tested even when in parallel with resistance as low as 2 ohms.
- Sturdy steel case with medium gray wrinkle finish. Light gray front panel with clear black markings.
- Overall size of the KT-1 is 9" high x 6" wide x 5¹/₄" deep —Net weight, 6 lbs.

MODEL KT-1.....115 VAC/50-60 cy.....\$34.50 net
MODEL KT-1X.....115-230 V/25-60 cy..... 39.50 net

