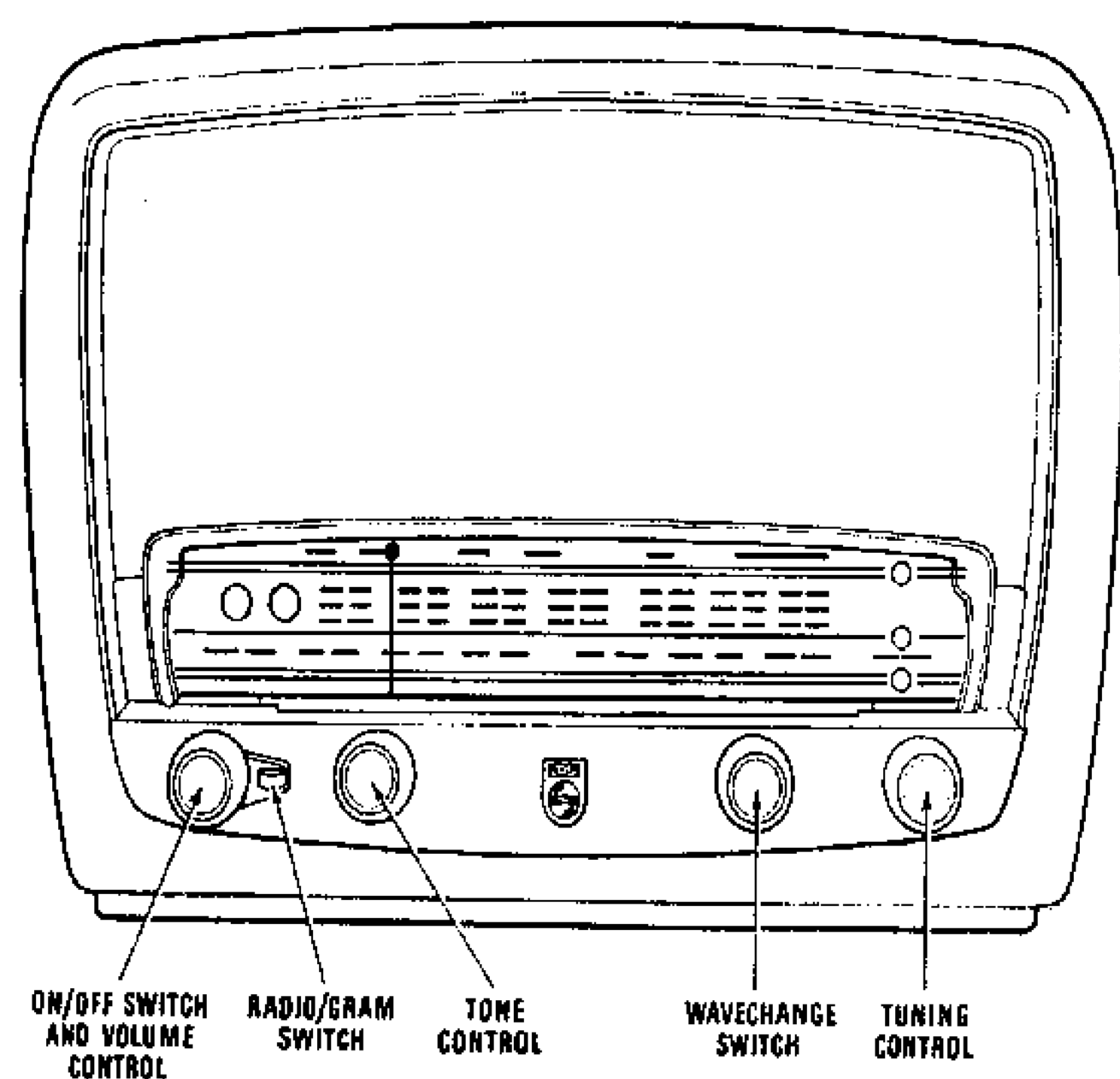


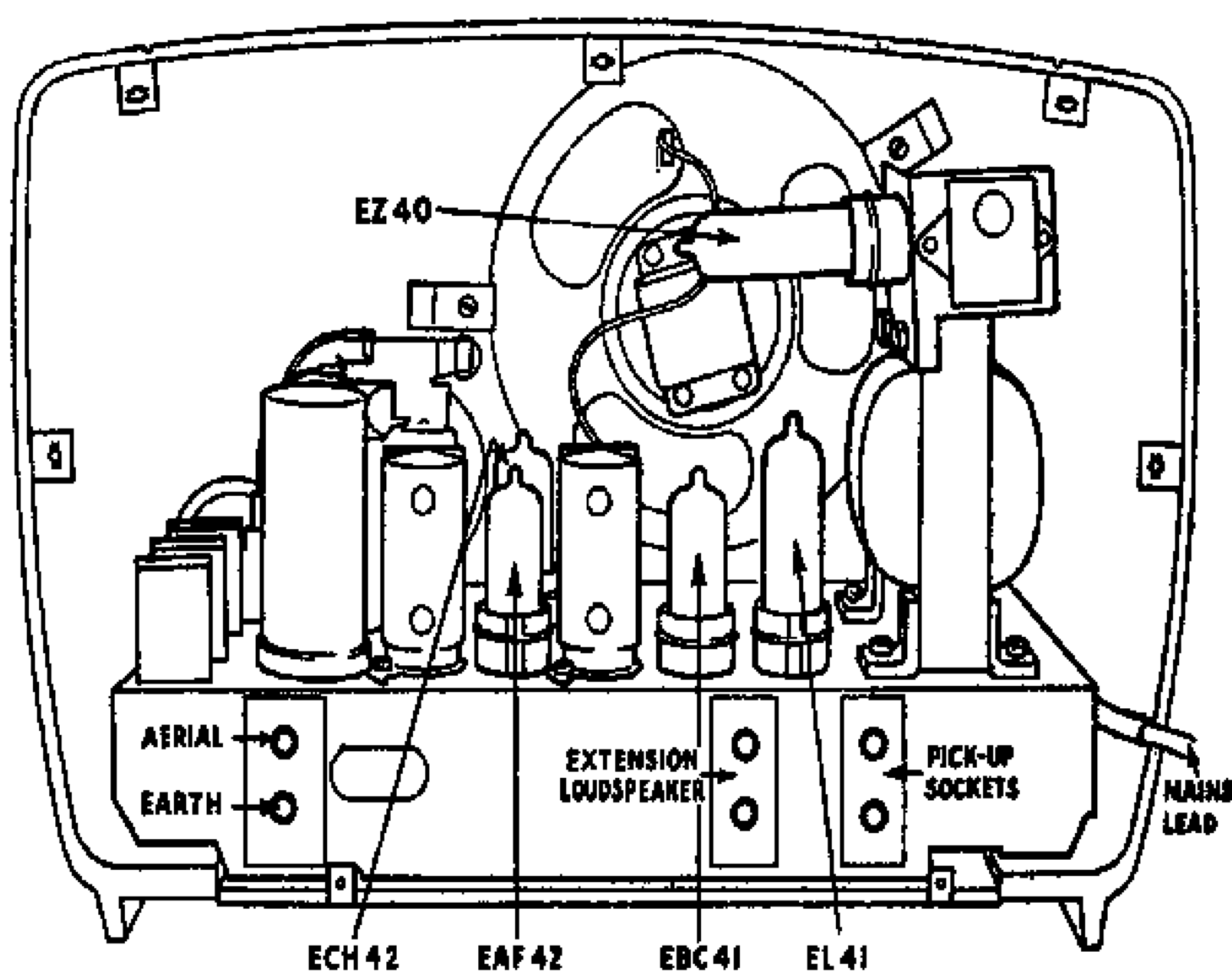
Servicing Information

FOR THE

PHILIPS RECEIVER TYPE 341A



Front view of Receiver



Rear view of Receiver

The 341A is similar to the 310A for which a Service Manual has been issued. The differences between the two receivers are as follows:—

The cabinet is different, and the dimensions are: Height $10\frac{3}{4}$ "", Width $16\frac{1}{4}$ "", Depth $8\frac{1}{4}$ "".

The length of the pointer drive cables are 45 cms. and 73.3 cms.

A number of minor mechanical differences exist, and a complete spares list is given below.

Please note also, the following corrections to the 310A Service Manual.

1. Circuit Diagram (page 9)

"SW15" should read "SW17" both on the small table and on the circuit across C31.

On "SW15" (below R3), contact number "8" should read "18."

One side of the valve filaments should be shown connected to chassis.

2. Under Chassis Diagram (page 8)

Coil S13 connects between tags 5 and 3, and not as shown between tags 5 and T1.

SPARE PARTS LIST—TYPE 341A

IMPORTANT. When ordering spare parts, the type number of the receiver and the code number of the part, as given in this manual, **MUST** be quoted to enable the order to be correctly executed. When claiming free replacement under guarantee the defective part should be returned and the type and serial number of the receiver, also the date of sale, should be quoted.

CABINET ASSEMBLY

Cabinet with fittings (moulded) ...	MK.976.28/MJ
Philips Emblem	MK.704.46
Fixing pins for above	A3.314.02
Spire clips for Backplate	MK.750.69
Metallised paper (800 × 40 mm.) ...	06.595.13

CONTROL KNOBS—VOLUME,

TUNING & TONE	A3.737.16/MJ
Control Knob—Waveband	A3.736.15/MJ
Control Lever—Gram Switch	A3.369.65/MJ
Small Felt Rings for knobs	25.440.14
Spring clips for knobs	MK.750.84
Ring assembly for Control knobs ...	MK.881.28

BACKPLATE ASSEMBLY

Fixing screws for above	MK.875.57
Valve position label	MK.946.88
Limited licence label	PG.001.82
	PG.006.09

METALLISED BASE PLATE complete

Fixing brackets to cabinet	MK.875.42
Fixing brackets to back plate	MK.065.81
	A3.458.47

SCALE ASSEMBLY

Station scale (plastic)	MK.704.44
Support clips for above	MK.750.91
Spire clips for above	MK.926.45
Light screen	MK.889.83
Felt discs for scale	MK.476.79

POINTER ASSEMBLY

Felt ring for above	MK.875.47
	A3.564.36

BAFFLE ASSEMBLY

Baffle board assembly less silk ...	HY.065.08
Spire clips for above	MK.926.45
Speaker silk (205 × 385 mm.) ...	K.300.ZZ/913

LOUDSPEAKER complete

Speaker holding clamps	MK.860.94
	A3.446.20

CHASSIS ASSEMBLY**POINTER DRIVE ASSEMBLY**

Pulley only	23.681.81
Pins for above	A3.599.26
Fixing bush for pulley	07.068.23
Drive cable only	33.403.04
Cable loop grips	MK.116.01
Tension spring	A3.646.14

TUNING UNIT

Gang capacitor with large drum ...	49.001.42
Circlip for small inner drum	A3.563.36
Brass pulley only	A3.322.40
Pin for above	A3.599.26
Fixing bush for pulley	07.068.23
Drive cord only	06.606.29
Cord loop grips	MK.908.99
Cord tension spring	A3.646.26
Outer casing for drive cord	08.010.54/65mm.
Outer casing for drive cord	08.010.54/78mm.
Ferrules for above	A3.303.63
Drive drum	23.644.51
Locking ring for drum	A1.756.55
Tuning spindle	MK.003.48
Locking ring for spindle	A1.756.55

WAVEBAND SWITCH ASSEMBLY

Switch section No. 1	A3.201.70
Switch section No. 2	A3.201.69

WAVEBAND SPINDLE ASSEMBLY

Bearing bush for above	MK.889.69
Locking ring for above	28.265.35
Spring washer for above	A1.756.56
Spacing ring for stop plate	07.043.07
Steel ball $\frac{7}{32}$ "	A3.208.23
	89.205.05

PILOT LAMP HOLDER

	A3.360.01
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TONE CONTROL

Control spindle	49.470.45
	MK.003.51

VOLUME CONTROL & SWITCH

Volume control only	49.500.34
Mains switch	MK.810.07
Switch mounting screws	08.529.38
Insulator between switch & control ...	07.800.10
Control spindle	28.315.23
	MK.003.49

GRAM. SWITCH

	A3.402.44
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SPARE PARTS LIST—TYPE 341A (Contd.)

MISCELLANEOUS

Voltage adjustment plate	MK.875.51
Voltage adjustment disc	MK.854.61
Socket plates	MK.874.45
Valve holders	49.232.02
Coil fixing clips	28.084.83
Spring clips for coils	MK.730.23
Mains lead only	K3.975.00
Chassis fixing bolts (4 × 20 mm.) ...	07.804.20
Rubber bushes for chassis	A3.327.14
Distance pieces for above	MK.116.21
Plate washers for above	07.025.14
Spring washers for above	07.041.40

GENERAL (Screws, Nuts, etc.)

CHEESEHEAD SCREWS

3 × 5mm. ...	07.803.05	4 × 6mm. ...	07.804.06
3 × 6mm. ...	07.803.06	4 × 8mm. ...	07.804.08
3 × 8mm. ...	07.803.08	4 × 10mm. ...	07.804.10
3 × 10mm. ...	07.803.10	4 × 20mm. ...	07.804.20
3 × 0mm. ...	07.803.30		

WASHERS

3mm. ...	07.035.30	4mm. ...	07.014.40
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NUTS

3mm. ...	07.104.30	4mm. ...	07.104.40
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VALVES & PILOT LAMPS

V1 Valve	ECH42
V2 Valve	EAF42
V3 Valve	EBC41
V4 Valve	EL41
V5 Valve	EZ40
L1 Pilot lamp (6.5 V. 0.3 amp)	00.080.28D-00

TRANSFORMERS & COILS

S1/2 & S4 Mains Transformer ...	MK.513.56
S5-8 Aerial Coil S.W. & M.W. ...	MK.564.98
S10/14 Oscillator coil	MK.564.97
S9/26 L.W. Aerial & I.F. Filter ...	MK.564.99
S15-18 1st I.F. Coil	MK.564.56
S19-22 2nd I.F. Coil	MK.564.56
S23/24 & S27 Speaker Transformer ...	A3.152.18
S25 Loudspeaker	MK.860.94

FUSE

Z1	08.100.99
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CORES for S6, S12, S14	23.643.06
Core for S8	A3.367.33
Cores for S9/S26	A3.367.32
Cores for I.F. Coils	23.644.67

WAX for air capacity trimmers ...	GBX.008.13/01
Wax for I.F. Coils	GBX.009.47

SPARE PARTS LIST—TYPE 341A (Contd.)

CAPACITORS						Working Voltage	Permitted Tolerance	
C1/2	Electrolytic	...	...	...	50 + 50 uF	350V		MK.182.35/50 + 50
C4	Ceramic	...	...	...	39 pF		10%	48.406.10/39E
C5/6	Gang	...	...	...	11-500 pF			49.001.42
C7	Ceramic	...	...	...	270 pF		5%	48.406.05/270E
C8	Paper	...	...	...	1,800 pF	400V	10%	48.751.10/1K8
C9	Trimmer	...	...	...	3-30 pF			28.212.36
C10	Ceramic	...	...	...	72 pF		2%	48.406.02/72E
C11	Ceramic	...	...	...	220 pF		20%	48.406.10/220E
C12	Ceramic	...	...	...	470 pF		10%	48.406.10/470E
C13	Ceramic	...	...	...	56 pF		10%	48.406.10/56E
C14	Ceramic	...	...	...	68 pF		2%	48.406.02/68E
C15	Trimmer	...	...	...	3-30 pF			28.212.36
C16	Trimmer	...	...	...	3-30 pF			28.212.36
C17	Ceramic	...	...	...	370 pF		1%	48.406.01/370E
C18	Ceramic	...	...	...	47 pF		2%	48.406.02/47E
C19	Ceramic	...	...	...	415 pF		1%	48.406.01/415E
C20	Paper	...	...	...	1,800 pF	400V	20%	48.751.10/1K8
C21		...	...	...	115 pF			} In 1st I.F. Coil
C22		...	...	...	115 pF			
C23	Paper	...	...	...	47,000 pF	125V	20%	48.750.10/47K
C24	Paper	...	...	...	0.1 uF	400V	20%	48.751.10/100K
C25		...	...	...	115 pF			} In 2nd I.F. Coil
C26		...	...	...	115 pF			
C27	Ceramic	...	...	...	82 pF		10%	48.406.10/82E
C28	Paper	...	...	...	12,000 pF	125V	10%	48.750.10/12K
C29	Paper	...	...	...	15,000 pF	125V	20%	48.750.10/15K
C30	Paper	...	...	...	8,200 pF	125V	20%	48.750.10/8K2
C31	Paper	...	...	...	2,700 pF	400V	20%	48.751.10/2K7
C32	Paper	...	...	...	3,300 pF	400V	20%	48.751.10/3K3
C33	Paper	...	...	...	6,800 pF	1,000V	20%	48.758.20/6K8
C34	Paper	...	...	...	0.1 uF	400V	20%	48.751.10/100K

RESISTORS

N.B.—Wattage is based upon an ambient temperature of 70° C.						Wattage	Permitted Tolerance	
R1	...	...	...	...	1,200 Ohm	1 watt	10%	48.427.10/1K2
R2	...	...	...	...	12,000 Ohm	$\frac{1}{2}$ watt	20%	48.426.10/12K
R3	...	...	...	...	8,200 Ohm	$\frac{1}{2}$ watt	10%	48.426.10/8K2
R4	...	...	...	...	0.82M Ohm	$\frac{1}{2}$ watt	10%	48.426.10/820K
R5	...	...	...	...	33,000 Ohm	$\frac{1}{2}$ watt	10%	48.426.10/33K
R6	...	...	...	...	33,000 Ohm	1 watt	10%	48.427.10/33K
R7	...	...	...	...	1.5M Ohm	$\frac{1}{2}$ watt	10%	48.426.10/1M5
R8	...	...	...	...	56,000 Ohm	1 watt	10%	48.427.10/56K
R9	...	...	...	...	47,000 Ohm	$\frac{1}{2}$ watt	10%	48.426.10/47K
R10	...	...	...	...	1.0M Ohm	$\frac{1}{2}$ watt	10%	48.426.10/1M
R11	...	...	...	...	27,000 Ohm	$\frac{1}{2}$ watt	10%	48.426.10/27K
R12/13	Potentiometer	...	...	0.05 + 0.45M Ohm	...	Log law		49.500.34
R14	...	...	...	...	1,800 Ohm	$\frac{1}{2}$ watt	10%	48.426.10/1K8
R15	High Stability	...	...	...	0.12M Ohm	$\frac{1}{2}$ watt	5%	GH.552.05/120K
R16	Potentiometer	...	...	...	50,000 Ohm	...	Linear law	49.470.45
R18	...	...	...	...	0.1M Ohm	$\frac{1}{2}$ watt	10%	48.426.10/100K
R19	...	...	...	...	0.68M Ohm	$\frac{1}{2}$ watt	10%	48.426.10/680K
R20	...	...	...	...	1,000 Ohm	$\frac{1}{2}$ watt	20%	48.426.10/1K
R21	...	...	...	...	180 Ohm	$\frac{1}{2}$ watt	10%	48.426.10/180E
R22	High Stability	...	...	...	43,000 Ohm	$\frac{1}{4}$ watt	5%	GH.550.05/43K