

**SCHEMATIC DIAGRAM
AND
PARTS LIST**

BK PRECISION

Model 1466

**10 MHz Single Trace
OSCILLOSCOPE**

SCHEMATIC
SYMBOL

Parts List
488-240-9-002

B & K-PRECISION
PART No.

DESCRIPTION

VERTICAL AMPLIFIER, POWER SUPPLY UNIT

RESISTORS & CONTROLS

R152	900K Ω , 1/2W, $\pm 1\%$ Metal-Coated	013-010-9-011
R153	990K Ω , 1/2W, $\pm 1\%$ Metal-Coated	013-010-9-012
R154	999K Ω , 1/2W, $\pm 1\%$ Metal-Coated	013-010-9-013
R155	111K Ω , 1/4W, $\pm 1\%$ Metal-Coated	013-010-9-010
R156	10.1K Ω , 1/4W, $\pm 1\%$ Metal-Coated	013-010-9-008
R157	1K Ω , 1/4W, $\pm 1\%$ Metal-Coated	013-010-9-004
R158	1M Ω , 1/2W, $\pm 1\%$ Metal-Coated	013-008-9-023
R169, 170, 262	8.2K Ω , 1/4W, $\pm 1\%$ Metal-Coated	013-010-9-007
R171, 172, 261	4.3K Ω , 1/4W, $\pm 1\%$ Metal-Coated	013-010-9-005
R173, 174	560 Ω , Metal-Coated	004-164-9-001
R175	741 Ω , 1/4W, $\pm 1\%$ Metal-Coated	013-020-9-001
R176	392 Ω , 1/4W, $\pm 1\%$ Metal-Coated	013-020-9-002
R177	115 Ω , 1/4W, $\pm 1\%$ Metal-Coated	013-020-9-003
R180, 181	3K Metal-Coated	013-028-9-001
R270	300K Ω , 1/4W, $\pm 1\%$ Metal-Coated	013-008-9-021
R278	13.3K Ω , 1/4W, $\pm 1\%$ Metal-Coated	013-010-9-009
VR1	Potentiometer, 3M Ω , "FOCUS"	008-235-9-001
VR2, S1	Potentiometer, 1K Ω , "INTENSITY"	008-235-9-004
VR111	Potentiometer, 470 Ω	008-235-9-002
VR112	Trimpot, 500 Ω	008-317-9-001
VR113	Potentiometer, 150 Ω	008-233-9-001
VR104	Potentiometer, 1K Ω	008-155-9-005
VR105, 107, 108	Potentiometer, 47K Ω	008-169-9-008
VR106	Potentiometer, 330K Ω , "ASTIGMATISM"	008-163-9-010
VR109	Potentiometer, 2.2K Ω	008-233-9-002
VR115	Trimpot, 5K Ω	008-282-9-002

CAPACITORS

C112, 160	47 μ F, 16V Electrolytic	022-090-9-003
C114, 157, 163	33 μ F, 25V Electrolytic	022-135-9-001
C121	.1 μ F Metal Film	033-019-9-002
C129, 132, 158, 159	100 μ F, 10V Electrolytic	022-123-9-002
C141	1000pF, 2KV Ceramic	020-163-9-005
C142, 143, 144, 145	.01 μ F, 2KV Disc Ceramic	020-124-9-011
C148	470 μ F, 50V Electrolytic	022-135-9-003
C156	1 μ F, 250V Electrolytic	021-059-9-001
C162, 165	1000 μ F, 25V Electrolytic	022-135-9-002
C164	47 μ F, 250V Electrolytic	021-057-9-001
TC104, 105, 106	6pF, Trimmer	028-033-9-001
TC110; 111, 112, 113	10pF, Trimmer	028-033-9-002

SEMICONDUCTORS & IC'S

IC105	IC Linear, RC4558T	307-069-9-005
Q109, 110, 111, 112, 119, 120, 123, 124, 130, 132, 133	NPN Silicon Signal, 2SC945-P	176-055-9-002

**COMPOSITE
499-158-9-001**

SCHEMATIC SYMBOL	DESCRIPTION	B & K PART NO.
SEMICONDUCTORS & IC'S, cont'd.		
Q113, 114, 125, 126, 131, 143, 144, 145 }	NPN Silicon Signal, 2SC535-C	176-055-9-001
Q115, 116	NPN Silicon Signal, 2SC1628-Y	176-055-9-005
Q117, 118	PNP Silicon Signal, 2SA818-Y	177-018-9-003
Q121	Dual FET, 2SK58-1-M	182-050-9-001
Q122	FET Transistor, 2SK30A-O	182-026-9-001
Q127, 128, 129	PNP Silicon Signal, 2SA733-Q	177-018-9-001
Q134, 135, 136, 137	NPN Silicon Signal, 2SC983-Y	176-053-9-002
Q138	NPN Silicon Signal, 2SC1213A(C)	176-055-9-003
Q139	NPN Silicon Signal, 2SC1419-C	176-055-9-004
Q140	PNP Silicon Signal, 2SA755-C	177-018-9-002
Q141	PNP Silicon Signal, 2SB536(2)LM	173-004-9-001
Q142	NPN Silicon Signal, 2SD401	172-037-9-001
D105, 106, 114, 115, 121	Diode Silicon, 1S1555	151-028-9-007
D107, 116	Zener Diode, WZ100	152-050-9-003
D108	Diode, High-Voltage Silicon, Y16JA	151-048-9-003
D109, 110, 111	Diode Silicon, WO6C	151-052-9-002
D112	Diode, Silicon, 1S1705	151-052-9-001
D113	Zener Diode, WZ050	152-069-9-001
D117	Zener Diode, WZ090	152-069-9-002
D118, 119	Bridge Rectifier, S1QB60	157-006-9-001

SWITCHES & CONTROLS

S103	Lever Switch, "AC/GND/DC"	080-003-9-001
S104	Rotary Switch, "VOLTS/CM"	083-204-9-001

COILS & TRANSFORMERS

T101	Converter Transformer	064-015-9-001
L101, 102	Fixed Inductor, 47μH, ±10%	041-068-9-002
L103, 104	Fixed Inductor, 68μH, ±10%	041-068-9-009
L107	Fixed Inductor, 470μH, ±10%	041-071-9-001
L108	Fixed Inductor, 4.7μH, ±10%	041-068-9-008

HORIZONTAL AMP/SWEEP P.C. BOARD

RESISTORS & CONTROLS

R324	3MΩ, ¼W, ±1% Carbon	013-010-9-015
R325, 379	100KΩ, ¼W, ±1% Metal-Coated	013-008-9-020
R326	300KΩ, ¼W, ±1% Metal-Coated	013-008-9-021
R327	500KΩ, ¼W, ±1% Metal-Coated	013-008-9-022
R328	1MΩ, ¼W, ±1% Metal-Coated	013-008-9-023
R345, 346	15KΩ, 2W, ±2% Metal-Coated	013-010-9-016
R347	680Ω, ¼W, ±1% Metal-Coated	013-010-9-018
R378	68KΩ, 2W, ±5% Metal-Coated	013-010-9-017
VR3, VR3-2	Potentiometer, 5K "POSITION"	008-282-9-001
VR301, 304	Potentiometer, 470Ω	008-163-9-008
VR303	Potentiometer, 150Ω	008-174-9-002
VR305	Potentiometer, 10KΩ	008-155-9-004
VR306	Potentiometer, 22KΩ	008-163-9-010

SCHEMATIC SYMBOL	DESCRIPTION	B & K PART NO.
RESISTORS & CONTROLS, cont'd.		
VR307, 312	Variable Resistor, 5K-100KΩ, "VARIABLE/HOR. GAIN"	008-282-9-003
VR309	Potentiometer, 4.7KΩ	008-155-9-002
VR310, S305	Variable Resistor, 50KΩ, W/Switch, "TRIG LEVEL"	008-226-9-003
VR311, 308	Potentiometer, 1KΩ	008-169-9-006

CAPACITORS & TRIMMERS

C301, 302, 303, 332, 333 }	1μF, 50V, Electrolytic	022-073-9-001
C306	.47μF, 1% Metalized Polystyrene	033-019-9-003
C307	.0047μF, 1% Metalized Polystyrene	033-019-9-004
C310	.22μF, 25WV Tantalum Condenser	027-011-9-001
C324	1500pF, ±10% 50V Polystyrene	030-037-9-001
C316, 317	.1μF Semiconductor Ceramic	033-018-9-001
C318, 319	220μF, 10V, Electrolytic	022-126-9-001
C322	220μF, 16V, Electrolytic	022-086-9-002
C323	.01μF, ±20%, 500V Disc Ceramic	020-111-9-005
C329	100μF, 10V Electrolytic	022-123-9-002
C330	47μF, 10V, Electrolytic	022-119-9-004
C331, 311	4700pF, 10%, 50V Polystyrene	030-036-9-007
C341	1μF, 250V, Electrolytic	021-059-9-001
TC301	Trimmer, 10pF	028-033-9-002

COILS

L301, 302, 303	Ferri-inductor, 47μH	041-068-9-002
L304, 305	Ferri-inductor, 1mH	041-077-9-001

SEMICONDUCTOR & IC'S

IC301	Digital IC, TD3472AP	307-069-9-003
IC302	Linear IC, RC555DN	307-094-9-001
IC303, 304	Digital IC, TD3400AP	307-069-9-004
IC305	Linear IC, AN606	307-071-9-003
Q301, 302, 303, 304, 305, 306, 309, 310, 311, 312, 313, 314, 315, 316, 319, 320, 321 }	NPN Silicon Signal, 2SC945P	176-055-9-002
Q307, 323	PNP Silicon Signal, 2SA733Q	177-018-9-001
Q308, 322	FET, 2SK30A-O	182-026-9-001
Q317, 318	NPN Silicon Signal, 2SC1507	176-055-9-006
D301, 302, 304, 305, 306, 308, 309, 311, 312, 313, 314, 315 }	Silicon Diode, 1S1555	151-028-9-007
D307	Silicon Diode, 1S1587	151-048-9-001
D316	Varistor STV-3H	005-003-9-001
TH301	Thermistor SDT-1000	005-003-9-002

B & K-PRECISION MODEL 1466 PARTS LIST

SCHEMATIC SYMBOL	DESCRIPTION	B & K PART NO.
SWITCHES		
S302 a, b, c	Rotary Switch, "SWEEP TIME/CM"	083-204-9-002
S303 a, b	Lever Switch, "SOURCE/INT-EXT"	080-004-9-001
S304 a, b,	Lever Switch, "SYNC"	080-004-9-002

VARIABLE AMP BOARD

C422, 425	47 μ F, 10V Electrolytic Capacitor	022-119-9-004
Q403, 404	Transistor, NPN Silicon, Signal 2SC535-C	176-055-9-001
R424, 426	182 Ω , 1/4W, \pm 1% Metal-Coated Resistor	013-020-9-005
VR402	100 Ω Potentiometer	008-282-9-004

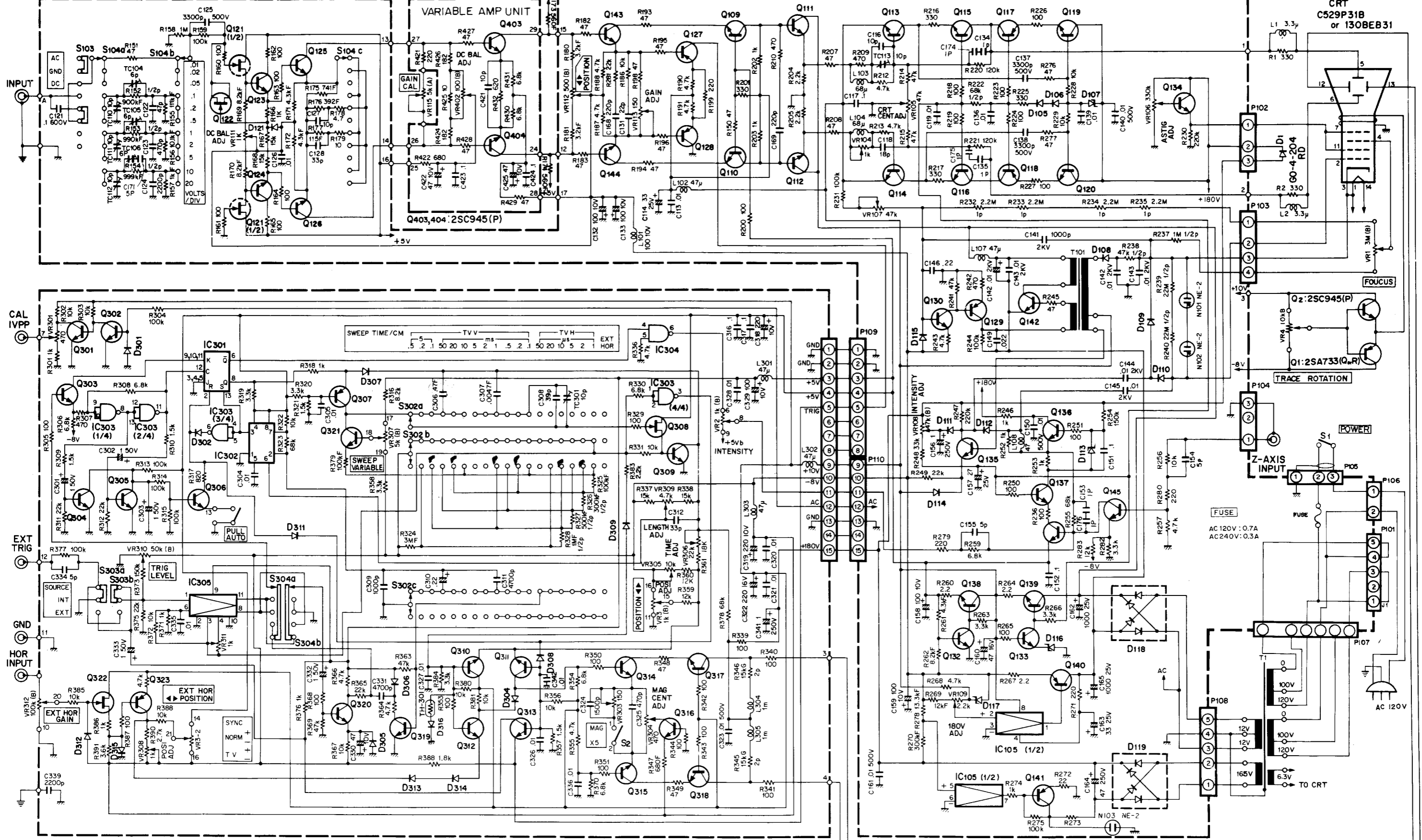
MISCELLANEOUS

Case	272-148-9-001
Bezel, Assembly	380-340-9-001
Bezel	380-338-9-003
Bezel Frame	769-102-9-002
Graticule	482-164-9-002
CRT, C529P31B or 130BEB31	230-009-9-001
Filter, Screen	380-338-9-001
Fuse, 0.3A	191-010-9-001
Fuse, 0.7A	191-011-9-001
Knob, "VOLTS/CM", "SWEEP TIME/CM"	751-186-9-001
Knob, "VARIABLE," "VARIABLE/HOR GAIN"	751-186-9-003
Knob, "INTENSITY", "FOCUS", "TRIG LEVEL", etc.....	751-186-9-002
Knob (Lever Switches)	751-186-9-004
Line Cord	420-013-9-001
Lamp Assembly	752-010-9-001
Power Transformer	065-124-9-001
Vector Overlay	482-044-9-001

NOTE: Standard value resistors and capacitors are not listed. Values may be obtained from schematic diagram. Minimum charge, \$5.00 per invoice. Orders will be shipped C.O.D. unless previous open-account arrangements have been made, or remittance accompanies your order. Advance remittance must include postage or other transportation charges. Please be sure to specify the serial number of your B & K-Precision test unit when ordering replacement parts for it.

BK PRECISION **DYNASCAN**
CORPORATION

6460 W. Cortland Street, Chicago, Illinois 60635



(X74-1060-01) SWEEP/HOR AMP UNIT

Q301~306, 309~316, 319~321: 2SC945(P), Q307, 323: 2SA733(Q), Q308, 322: 2SK30A(O), Q317, 318: 2SC1507
 D301~306, 308, 309, 311~315: 1S1555, D307: 1S1587, D317: STV-3H
 IC301: TD3472AP, IC302: RC555DN, IC305: AN606

Q109~112, 119, 120, 123, 124, 130, 132, 133, 143~145: 2SC945(P), Q113, 114: 2SC535(C), Q115, 116: 2SC1628(Y)
 Q117, 118: 2SA818(Y), Q121: 2SK581(M), Q122: 2SK30A(O), Q125, 126: 2SC535(C), Q127~129: 2SA733(Q)
 Q135~137: 2SC983(Y), Q138: 2SC1213A(C), Q139: 2SC1419(C), Q140: 2SA755(C), Q141: 2SB536(2) LM
 Q142: 2SD401, IC105: RC4558T
 D105, 106, 114, 115, 121: 1S1555, D107, 116: WZ-100, D108: Y16JA, D109~111: W06C, D112: 1SS83, D113: WZ-050
 D117: WZ-090, D118, 119: S1QB60

RESISTANCE VALUES IN Ω , 1/4W, CAPACITANCE IN μ F, F AND INDUCTANCE IN H UNLESS OTHERWISE SPECIFIED.