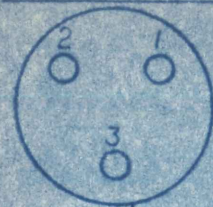


CANNON PLUG



CABLE

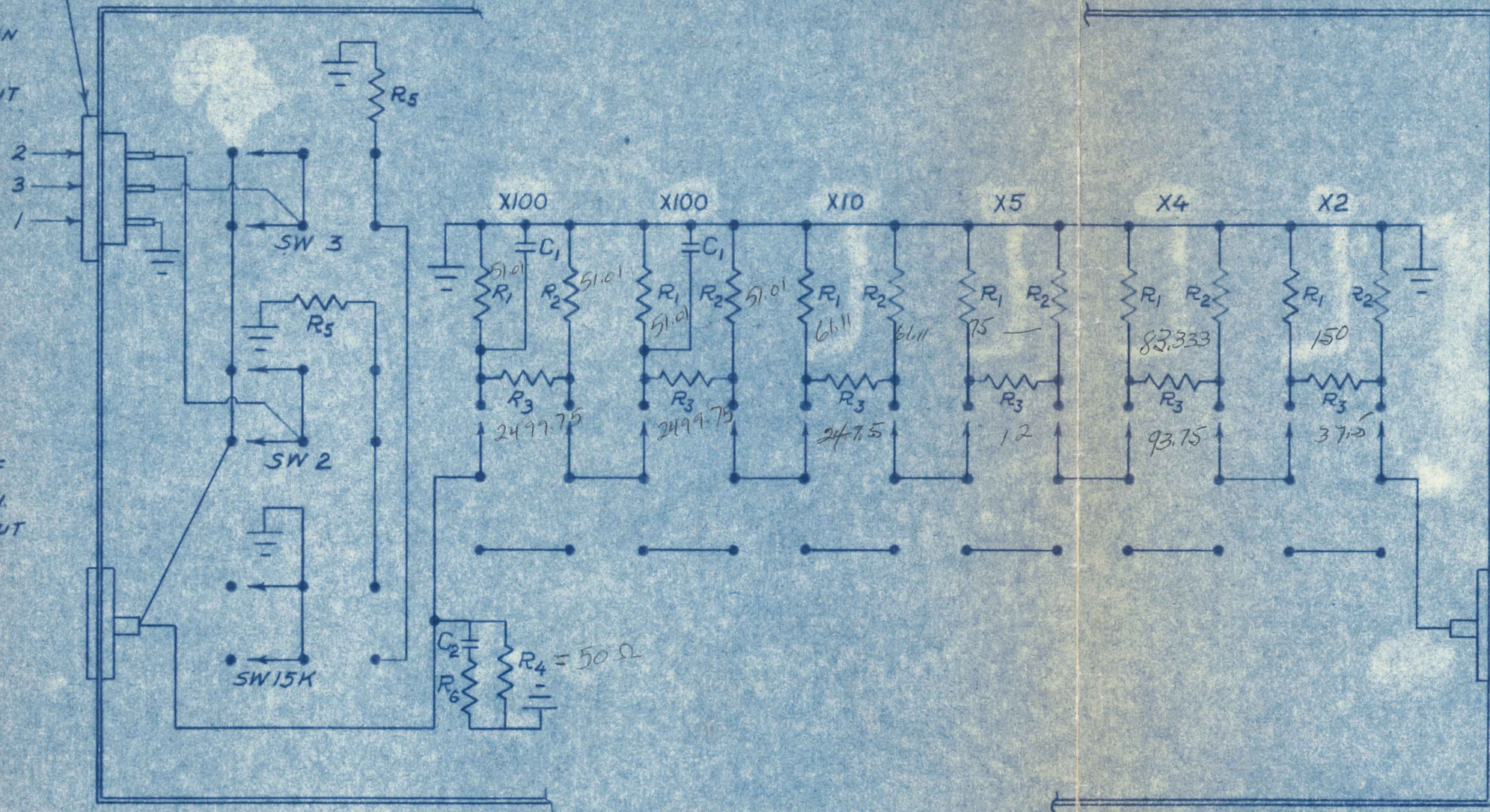
- 1. SHIELD
- 2. RED
- 3. BLUE

PLUG-IN

- 1. GROUND
- 2. GRID #7 10MEG
- 3. GRID #2 10MEG

CANNON
CONN
OUTPUT

UHF
CONN
OUTPUT



PARTS SCHEDULE

TEK MADE SPECIALS

POS	R ₁ & R ₂ 0.1% CROSSWOUND-SANDED	NO	R ₃ 0.1% SINGLE LAYER-SANDED	NO
X2	150.0	2	37.50	1
X4	83.33	2	93.75	1
X5	75.00	2	120.0	1
X10	61.11	2	247.5	1
X100	51.01	2	2499.75	1
X100	51.01	2	2499.75	1
R ₄	50Ω 0.1% CROSSWOUND-SANDED	1		1

TEK OR DWG NO	DESCRIPTION	NO
131-014	CANNON PLUG	1
131-012	UHF COAX CONN	2
260-014	TOGGLE SW.	9
210-414	Nut. 15/32-32 x 9/16	9
210-473	NUT, SW.	18
210-902	WASHER, ST. FL.	9
103-026	UHF "T" CONN	1
211-008	4-40x1/4 BHS	15
210-406	4-40 x 5/16 BHS	15
210-003-004	4-40 LOCKWASHER	15
348-013	FEET, RUBBER 1/2"	4
213-088	#4 x 1/4 THR. FORM. SC.	4
579-C	BOX	1
579-C	BOX BOTTOM	1
336-A	BUSS BAR	1
337-A	SW. SHIELD	6
336-A	SW TO SW BUSS	7
336-A	INNER SW BUSS	6
R ₅	304-153 RES 15K 1W 10%	2
R ₆	316-470 RES 47Ω 1/4W 10%	1
C ₁	281-524 PUFF 150 PF 500V ±30PF	2
C ₂	281-511 PUFF 22PF 500V ±2.2PF	1

TEKTRONIX, INC.

TITLE: 50Ω ATTENUATOR SCHEMATIC & PARTS		
DEPT: TEST		
MATL:	ENG: MGF	DR. BY: RKS
DATE: 10/3/62	SCALE: NONE	DRG. NO: 826-B

MOD 11/15/62 RKS

067-075

NOT SCALE DRAWING

FIELD MAINTENANCE SUPPORT

50 Ohm Pi Attenuator

The Tektronix 50 Ohm Pi Attenuator is a low impedance, high bandpass switched attenuator, designed to fulfill a portion of the calibration requirements of the Tektronix Type 2A61. Although the functions of the 50 Ohm Pi Attenuator closely approximate the functions of the B1500-A, the B1500-A was found to be inadequate due to its poor bandpass characteristics. Hence; the Tektronix 50 Ohm Pi Attenuator was designed to include all of the functions of the B1500-A in addition to the features required for the calibration of the 2A61.

SPECIFICATIONS:

This device will be called in by Field Maintenance Support annually. Calibration will be performed by I.S.E. Measurements & Standards, and it will be checked to the specifications listed below:

1. 3 db Bandwidth is at least 15 mc on any combination of attenuator steps.
2. Input VSWR is less than 1.05:1 at 2 mc on any combination of attenuator steps.
3. DC Attenuation accuracy is within $\pm 0.25\%$ on any one step.

Listed below are some of the measurements in which the Tektronix 50 Ohm Pi Attenuator is used:

TEKTRONIX TYPE 2A61 PLUG-IN:

1. Gain Tracking Adjustments.
2. Checking Attenuator Accuracies.
3. Checking Maximum Bandpass.
4. Checking Low Frequency Limited Bandpass.
5. Checking High Frequency Limited Bandpass.
6. Checking Minimum Bandpass.

TEKTRONIX TYPE "E" PLUG-IN:

1. Heater Balance Adjustment.
2. Checking and Setting Differential Balance.
3. Checking Frequency Response.
4. Checking Noise and Hum
5. Checking Attenuator Accuracies.

TEKTRONIX TYPE 122:

1. Checking DC Level Control.
2. Checking and Adjustment of Differential Balance.
3. Setting Gain at 1 kc.
4. Checking High Frequency Response.
5. Checking Low Frequency Response.
6. Adjustment of C-11.
7. Checking Noise and Microphonics.

KIT LEVEL #067-0075-00KIT DESCRIPTION 50Ω PI Attenuator KIT # INST.

NEW ITEM	or 1-3	PART NUMBER	TOTAL QUANT	QTY PER	DESCRIPTION	CIRCUIT #
	3	Dwg. 336-A		1	Buss Bar	
	3	Dwg. 336-A		7	Buss Bar, Inner Switch	
	3	Dwg. 336-A		6	Buss Bar, Switch to Switch	
	3	Dwg. 337-A		6	Shield, Switch	
	3	Dwg. 579-C		1	Box	
	3	Dwg. 579-C		1	Cover, Box (Bottom)	
	3	Special		2	Resistor, 150.0Ω	
	3	Special		2	Resistor, 83.33Ω	
	3	Special		2	Resistor, 75.00Ω	
	3	Special		2	Resistor, 61.11Ω	
	3	Special		4	Resistor, 51.01Ω	
	3	Special		1	Resistor, 37.50Ω	
	3	Special		1	Resistor, 93.75Ω	
	3	Special		1	Resistor, 120.0Ω	
	3	Special		1	Resistor, 247.5Ω	
	3	Special		2	Resistor, 2499.75Ω	
	3	Special		1	Resistor, 50Ω	
	1	103-0026-00		1	Adapter, UHF "T"	(Packaging)
	1	131-0012-00		2	Connector, UHF Coax	
	1	131-0014-00		1	Connector, Cannon	
	1	210-0004-00		15	Lockwasher, Int. #4	
	1	210-0406-00		15	Nut, Hex, 4-40 x 3/16	
	1	210-0414-00		9	Nut, Hex, 15/32-32 x 9/16	
	1	210-0473-00		9	Nut, Switch, 12-sided	
	1	210-0902-00		9	Washer, Flat	
	1	211-0008-00		12	Screw, 4-40 x 1/4 PHS Phil.	
	1	211-0011-00		3	Screw, 4-40 x 5/16 BHS	

