

TECHNICAL DESCRIPTION

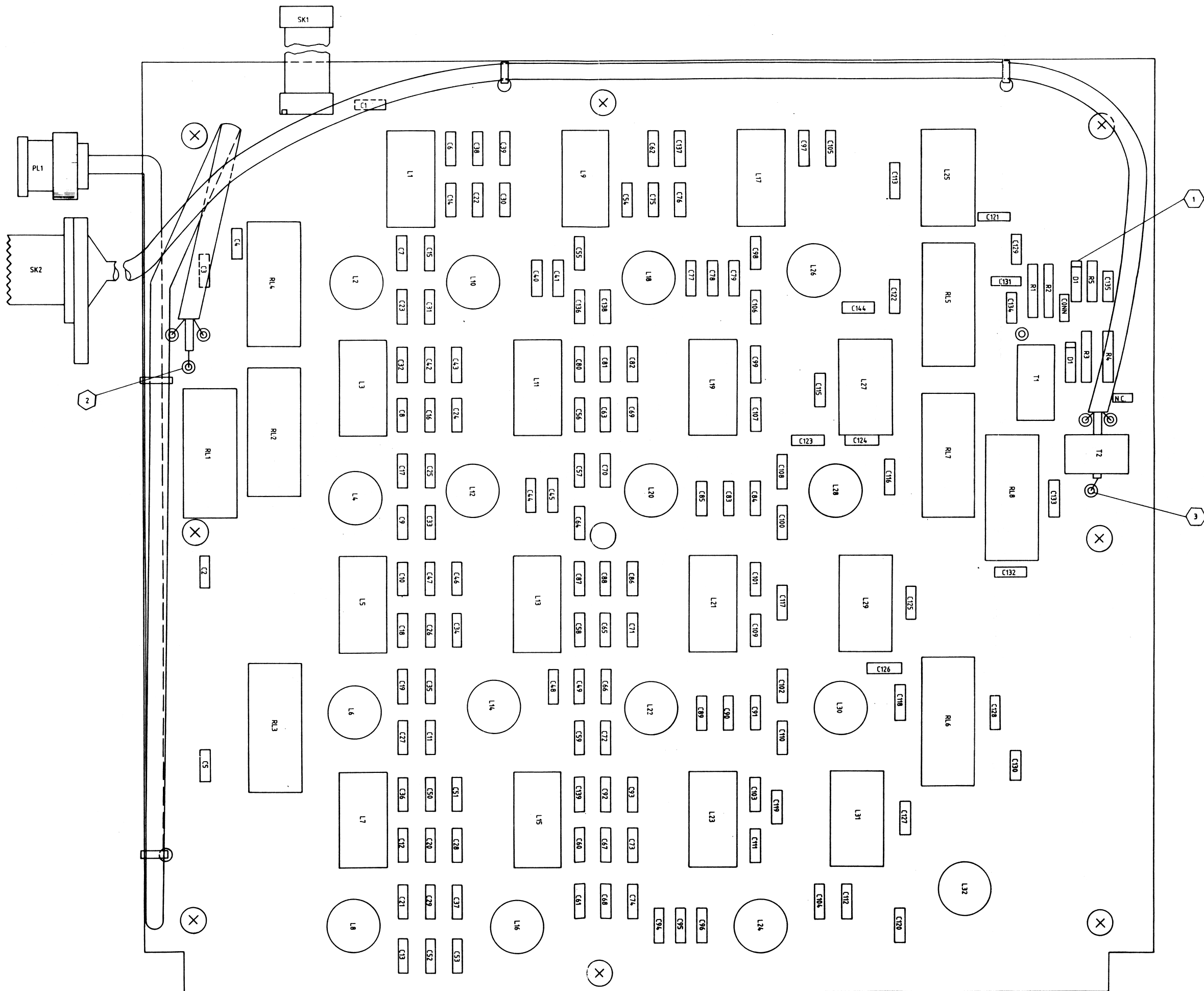
PCB 629 P.A. FILTERS, Continuous Coverage

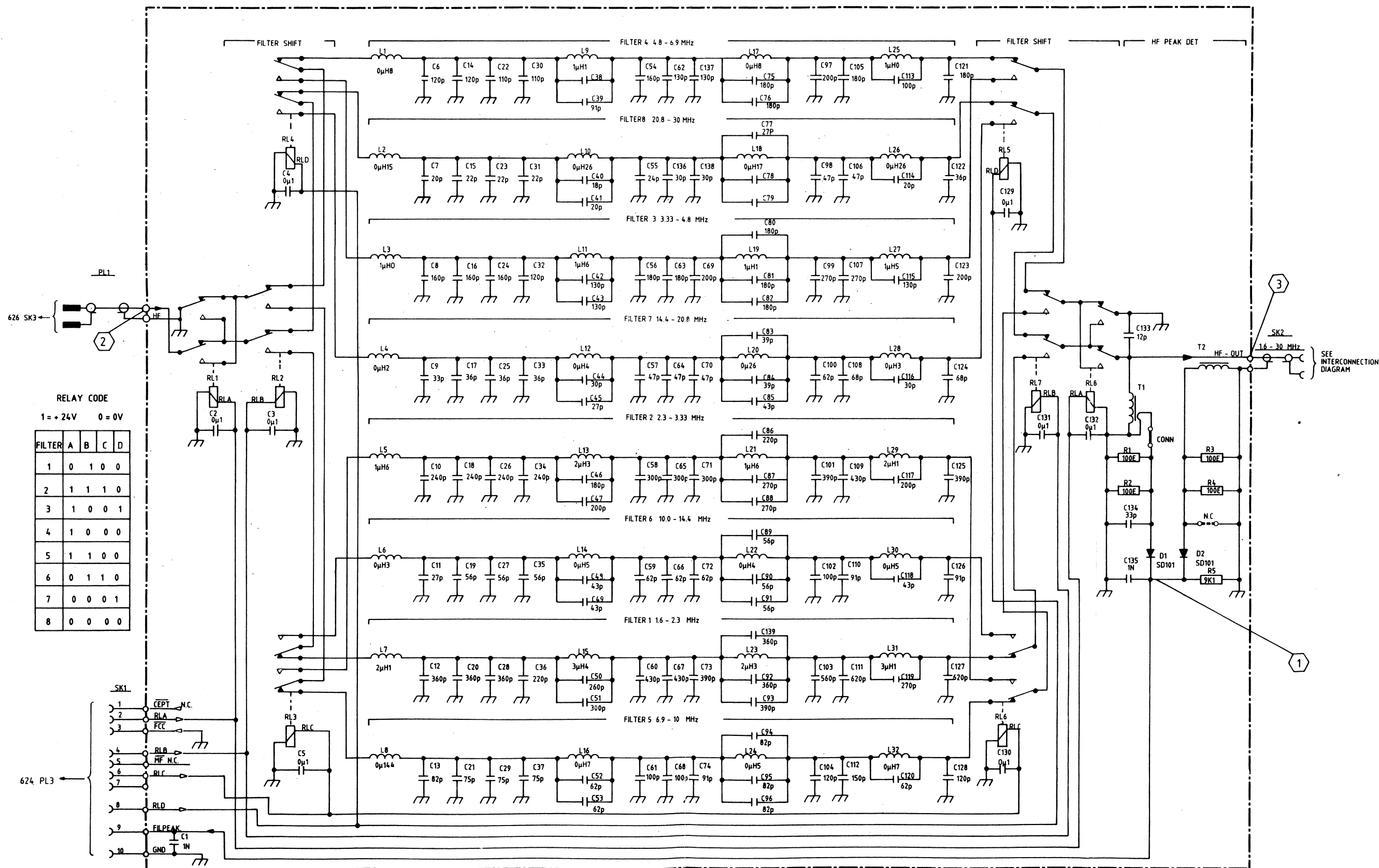
The filter bank contains 8 lowpass filters covering the frequency range 1.6-30.0 MHz, as shown in the table below.

Filter no.	Passband MHz	Stopband MHz	Relays			
			A	B	C	D
1	1.60- 2.31	3.19	0	1	0	0
2	2.31- 3.33	4.61	1	1	1	0
3	3.33- 4.80	6.64	1	0	0	1
4	4.80- 6.93	9.58	1	0	0	0
5	6.93-10.00	13.85	1	1	0	0
6	10.00-14.42	19.95	0	1	1	0
7	14.42-20.80	28.80	0	0	0	1
8	20.80-30.00	41.00	0	0	0	0

0 = off
1 = on

All filters are 7th order elliptic LP-filters (cauer-filters) with a series coil giving an inductive input impedance on the harmonics. When loaded with 50 ohms the input SWR is less than 1:1.12 and the insertion loss less than 0.25 dB in the passbands. In the stopbands the attenuation is better than 47 dB. The filters are inserted by a system of dual pole dual throw relays controlled from the Transceiver Control Board 624 as shown in the table. Type-code information is given via 4 lines of the connector cable. The DC voltage from the output peak-detector, which monitors voltage and current in the load, is connected to the ALC-circuit on the Transceiver Control Board 624. This voltage is used for automatic adjustment of output power and should be 9.0 V for an output of 250 W into 50 ohms.





PCB 629 637 P.A. FILTERS BOARD CONTINUOUS COVERAGE
VERSION 1A MAIN DIAGRAM

TEST POINTS FOR PCB 629 P.A. FILTERS.

Self test #	1	2	3
33	9VDC	~320Vpp	~320Vpp
34	—	—	—
35	—	—	—
36	—	—	—
37	—	—	—
38	—	—	—
39	—	—	—

