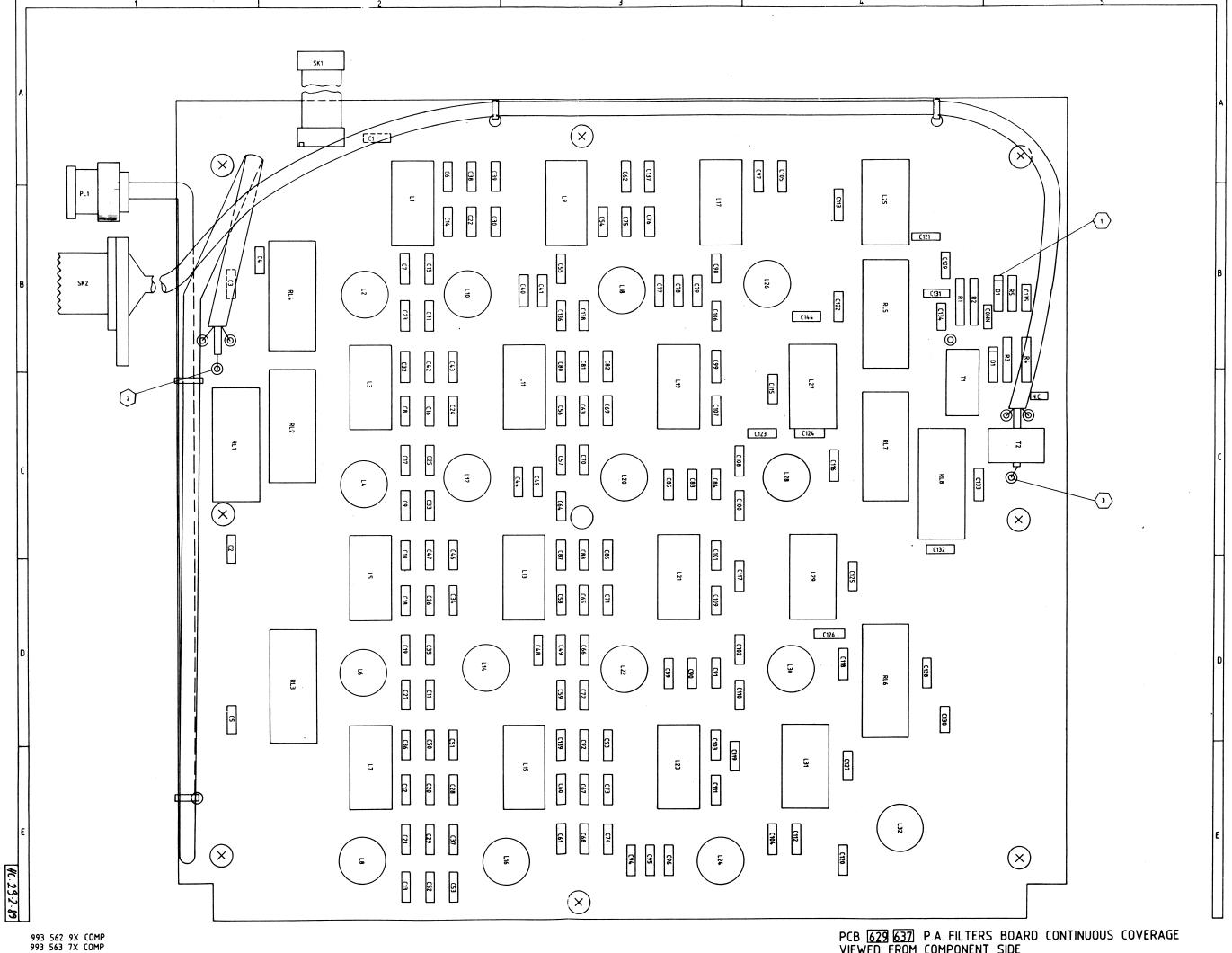
TECHNICAL DESCRIPTION

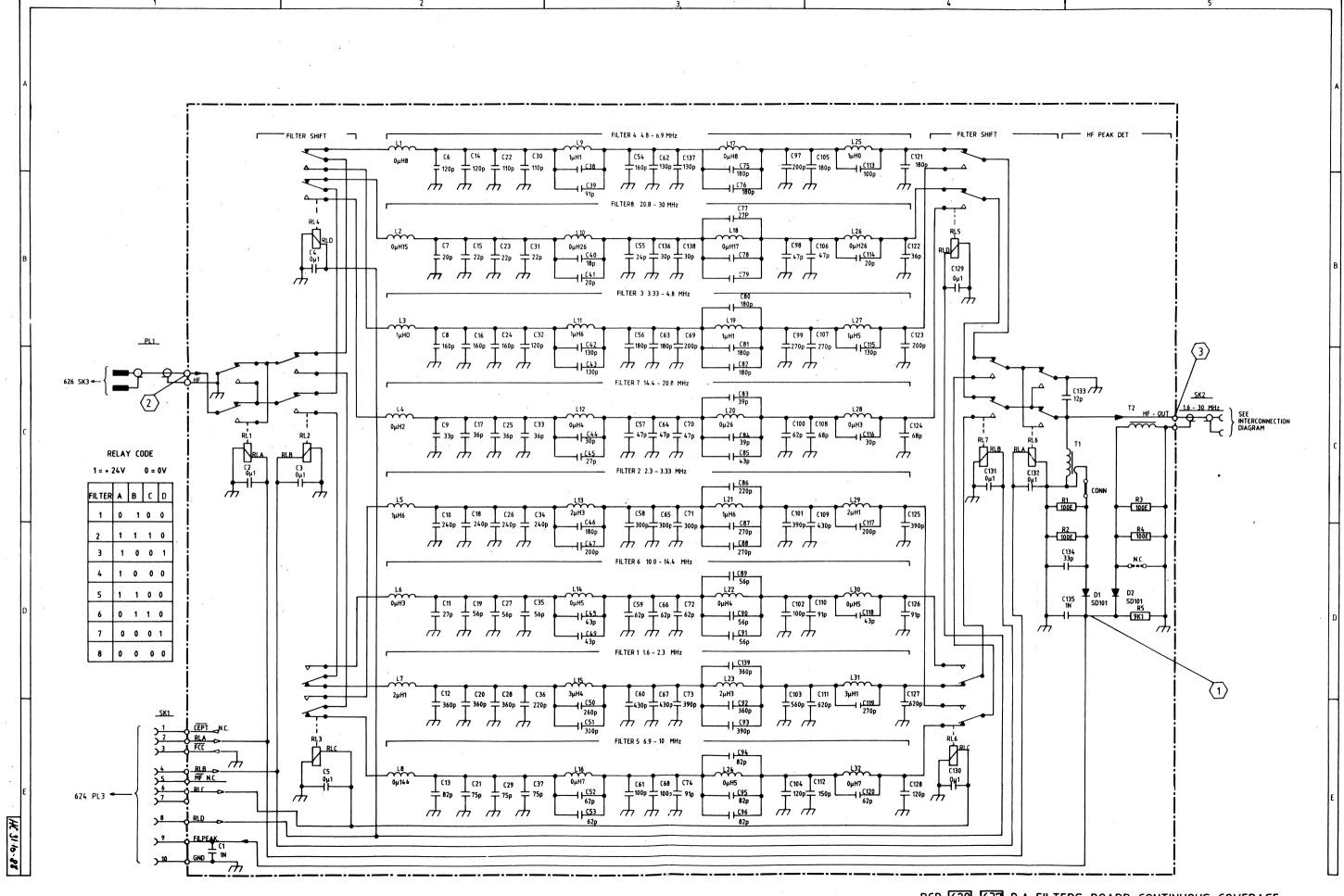
PCB 629 P.A. FILTERS, Continuous Coverage

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

			Relays	
Filter no.	Passband MHz	Stopband MHz	ABCD	
1	1.60- 2.31	3.19	0100	
2	2.31- 3.33	4.61	1 1 1 0	
3	3.33- 4.80	6.64	1001	0 = off
4	4.80- 6.93	9.58	1000	l = on
5	6.93-10.00	13.85	1100	
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	0000	

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.





TEST POINTS FOR PCB 629 P.A. FILTERS.

Self test #	1	2	3
• 33	9VDC	\sim 320 Vpp	\sim 320 V pp
34	·		-
35	-		•
36			
· 37			
- 38			
39			

	20 01	25	91		C111,127 C112 C134 C133		2% 3(2% 5(2% 5(+-1/2pF 5(300V Mi 500V Mi 63V Cer. 500V Mi	262 215 133 112
	% ²	<u>₩</u> :	780 000 32 512 210 00		L1,17 L2 L3,25	0.8 uH 0.15 uH 1.0 uH			572 575 572
10%	63V 63V	Cer. Polyes.	310 510 510		L4 L5,21 L6 L7,29	0.2 H 1.6 H 0.3 H 2.1 H			103 575 41 373 572 7X 103 575 81 373 573 0X
2% 2% 2%	500V 500V 500V		212 120 216		L8,12,22 L9 L10,20,26				576 572 575
% % % 7% %			155 224 127		L11 L13 L14,24,30				572 573 576
5,2,2,2	500V 500V 500V		645 236 01 645 182 00 645 122 00		L15 L16,32 L18	3.4 uH 0.7 uH 0.18 uH			573 576 575
3%%			136		L19 L23				572 573
3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	500V 500V 500V			•				•	572 575 573
25° 25°		Ξ Σ Σ Σ Ξ :: Ξ ::	645 210 01 645 191 00 645 118 00 645 213 01		T1 T2				103 576 51 103 576 61
% %					PL1	COAXCABLE	.E		613
i è			017		SK2	S0239	ABLE 10 FUL		750 000 29
% % % % 7 7 7 7	500V 500V 500V 500V	M M Ai i i i	642 220 01 645 143 00 645 226 00 645 230 01						
2%	5000	Ω	645 162 00						
+-1/2pF 2% 2% 2% 2% 2% 2% 2% 2%	500V 500V 500V 500V 500V 500V 500V 500V		645 124 00 645 147 00 645 243 00 645 239 01 645 139 00 645 227 02 644 256 01 645 168 00				• • • • • • • • • • • • • • • • • • • •		