

SHAPING FILTER UNIT FL1/513

Introduction

The FL1/513 is a filter unit designed to shape the vision i.f. characteristic of t.v. rebroadcast and monitoring receivers¹ using i.f. carrier frequencies of 37.5 MHz and 31.5 MHz for vision and sound respectively.

The main features of the unit are:

- (a) A vestigial characteristic (Nyquist Slope), controlled by a passive network, which sets the vision carrier at -6 dB.
- (b) Rejection of the sound signal.
- (c) Rejection of the adjacent channel sound signals above and below the wanted channel.
- (d) Rejection of the adjacent channel vision carrier above the wanted channel. The response of the unit is indicated in Fig. 1.

The unit is constructed in a plug-in copper box, similar in size to a CH1/39A chassis. It has index pegs 17 and 27. The box has 9 compartments, numbered to line-up with the signal path through the unit. Printed circuit boards are used. Signal connections are made via BNC sockets.

Brief General Specification

<i>Maximum Input Vision i.f.</i>	
<i>Carrier</i>	60 mV
<i>Input and Output Impedances</i>	
	75 ohms
<i>Overall Loss</i>	
At vision carrier frequency 37.5 MHz	6 dB approx.
At 35 MHz	0 dB
<i>Power Supply</i>	
	-30 volts
<i>Weight</i>	
	4 lbs

Circuit Description

The circuit diagram is given in Fig. 2, on page 3, in which the dotted lines indicate the nine box compartments.

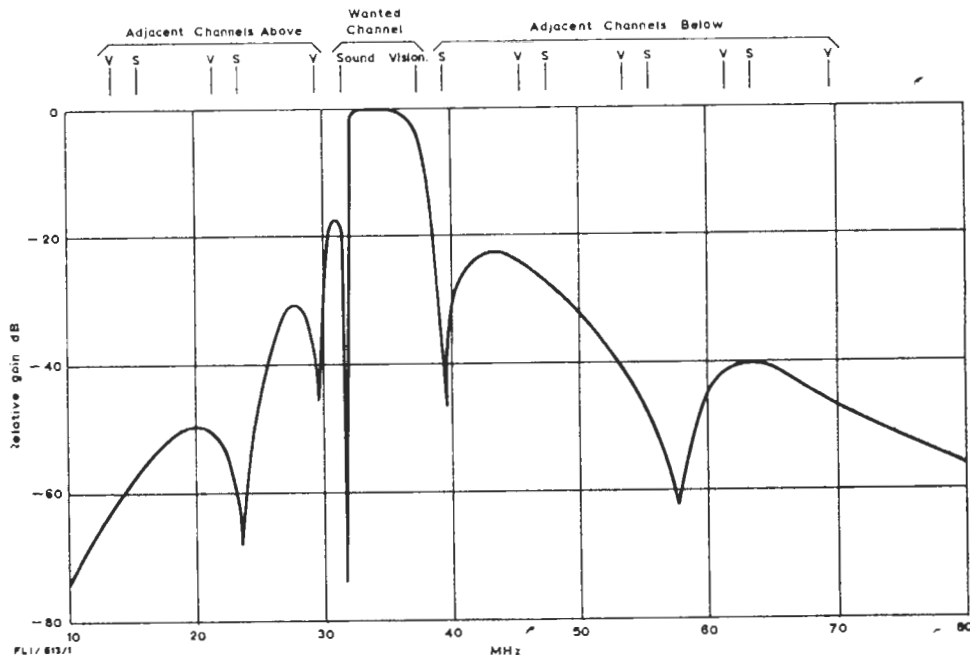
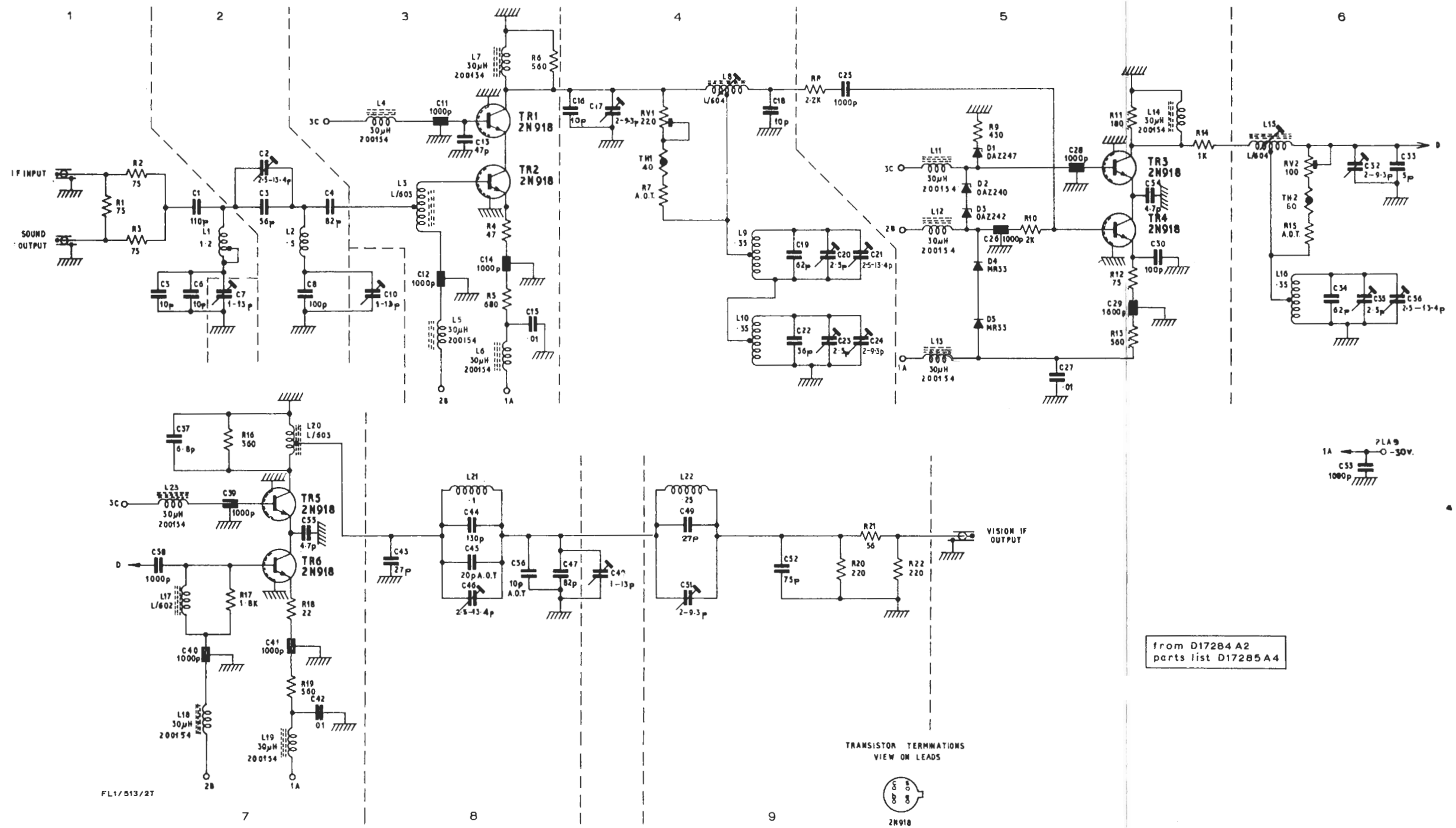


Fig. 1 Amplitude-frequency Response of the FL1/513



from D17284 A2
parts list D17285 A4

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Fig. 2 Circuit of the FL1/513