1.3 Technical Data

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1.3.1 Electrical Data

The electrical data are measured at ambient temperature 25 °C \pm 15 °C.

Frequency range:	1.5 MHz to 30 MHz (1 MHz to 30 MHz extendable)
Input – Tolerated overvoltage: – Impedance: – Standing wave ratio VSWR, (for 50 Ohms): Back-attenuation from outputs to input:	up to 30 V EMF 50 Ohms, coaxial typical value 1.5
	maximum value 2.5 greater than 40 dB
Outputs	
 Number of outputs: Impedance: 	12 (34 in cascaded connection of 19" combination) 50 Ohms coaxial
 Standing wave ratio VSWR, (for 50 Ohms): 	typical value 1.1 maximum value 1.2
Decoupling attenuation between any two	
receivers:	greater than 35 dB (typically 40 dB)
Gain:	1.0 dB ± 0.5 dB
Threshold sensitivity:	\leq 5.5 kTo (at f = 30 MHz)
Linear selectivity Attenuation of frequencies under 1.3 MHz and above 40 MHz:	≧ 35 dB
Phase matching:	$\leq \pm 1.5^{\circ}$ (only for V 1275 H–P)
Gain matching:	$\leq \pm 0.25$ dB (only for V 1275 H–P)
Intermodulation rejection Rejection of second and third order com- bination frequencies, with respect to the input level of two equal magnitude inputs of 0 dBm:	$IM_2 = -80 \text{ dB}, IM_3 = -68 \text{ dB}$
IPIP, 3rd order: IPIP, 2nd order:	34 dBm 80 dBm
Linear drive limit:	1 dB limiting of output signal requires more than 10 V input EMF
Cross-modulation rejection:	An unmodulated wanted transmission with 100 μ V EMF suffers not more than 10% cross-modulation from an interfering transmission with 50% modulation depth and up to 2 V EMF.