

DATA SHEET

500-W Solid State Amplifier 1250-1500 MHz

DESY-MHFe, Vers. 2.1

January 2008

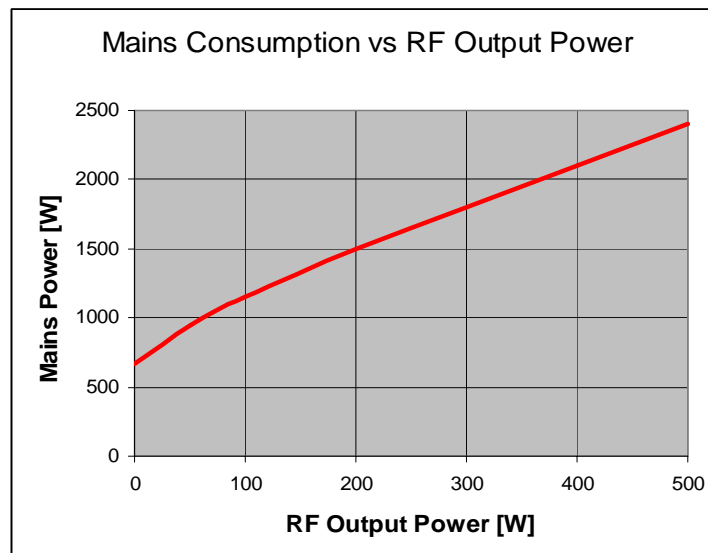
Type: RF12501500-500
Manufacturer: R.F.P.A. S.A., F-33370 Artigues Pres Bordeaux
Distributor: Telemeter Electronic GmbH



- Class AB linear broadband power amplifier.
- LD MOS final stage.
- Forced air cooled.
- Size: 10 U, 19''
- Weight: about 40 kg
- Main supply: 230V AC

Technical Data:

	unit	min.	nom.	max.	remarks
Max. output power (saturated)	W	400		780	
Gain	dB	53	57	62	
Input power	dBm		0		+10 without damage
Impedance	Ω		50		
Input VSWR	-			2:1	
Load reflection	%			100	full reflection protected
Frequency range	MHz	1250		1500	± 2.5 dB
Group delay	ns		19		
Group delay variation	ps	500		1700	within frequency range 1250-1500 MHz
Harmonics	dBc		-20		
Intermodulation (IP3)	dBc	-25			f1: 1365 MHz, 125W f2: 1385 MHz, 125W
Temperature range	$^{\circ}\text{C}$	10	25	45	

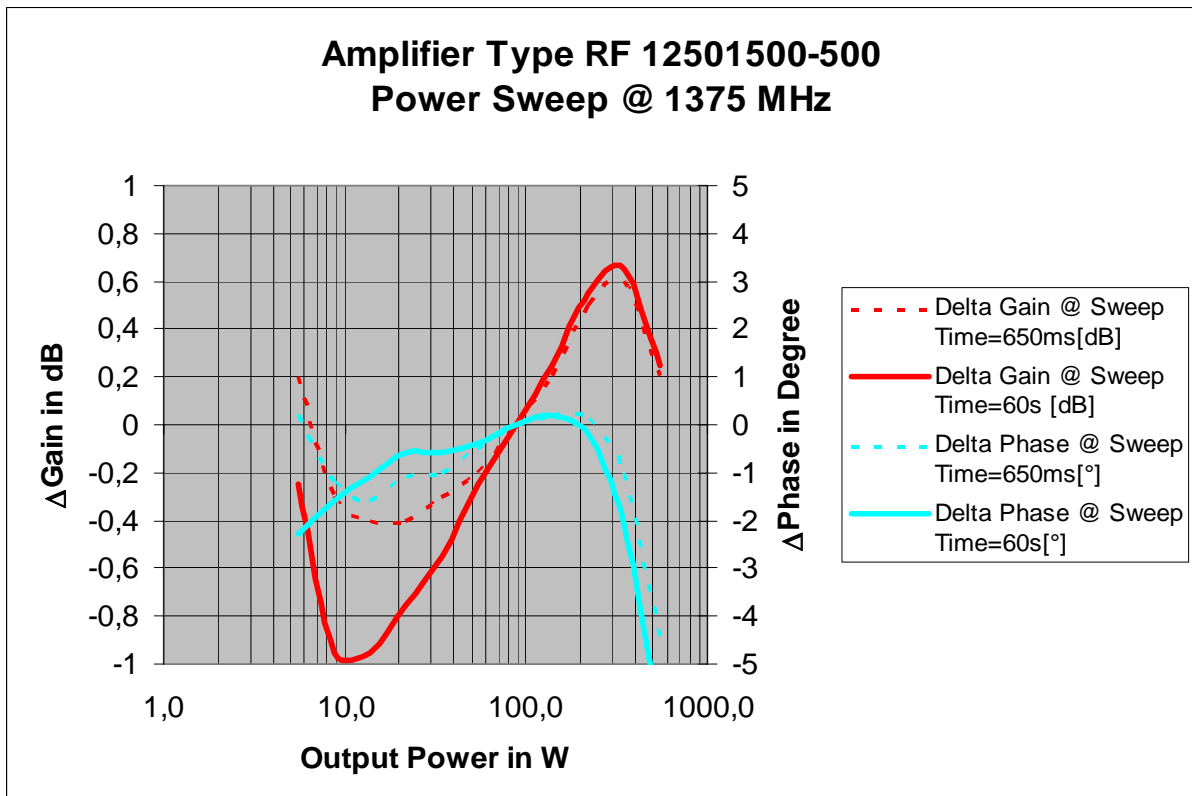
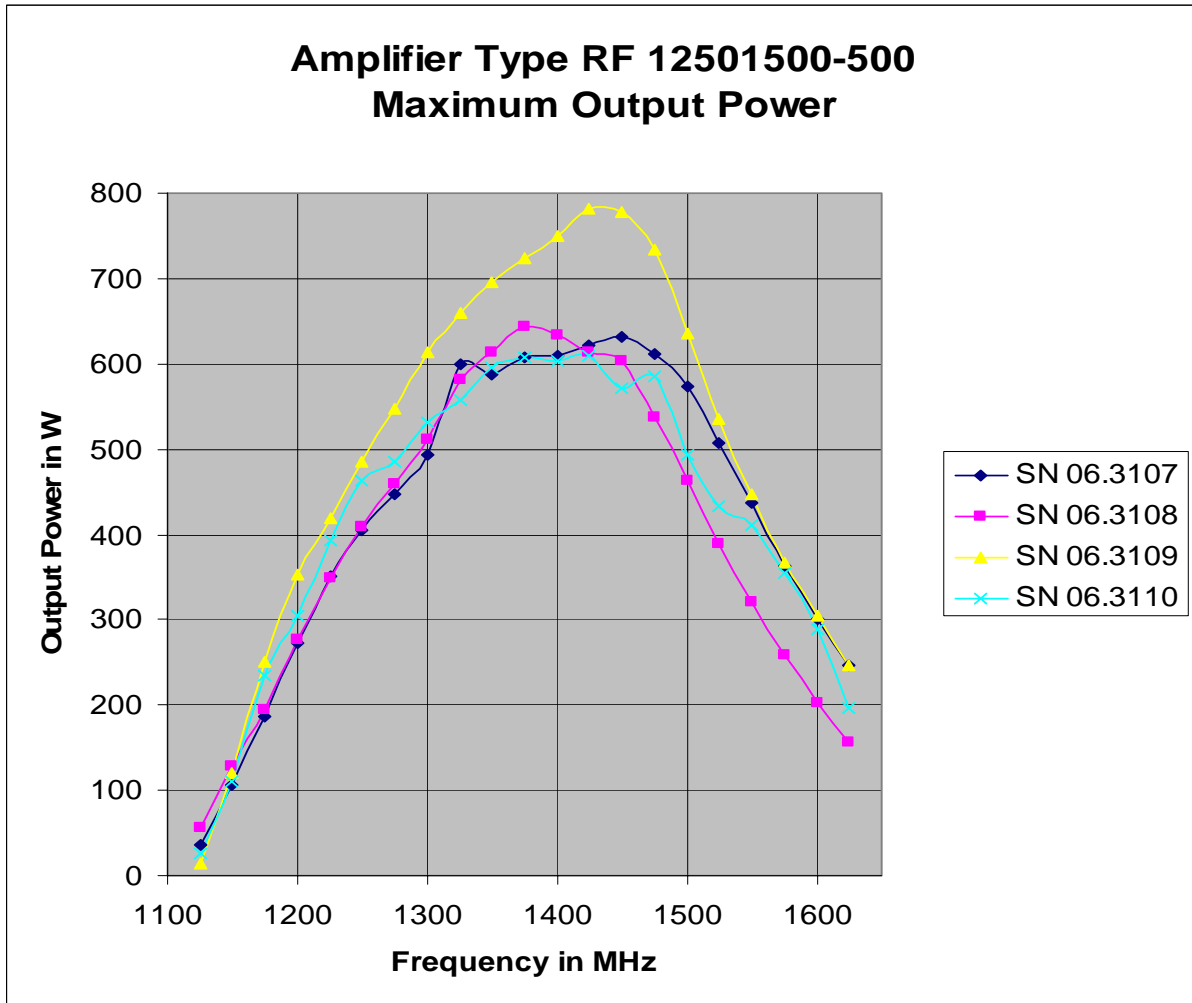


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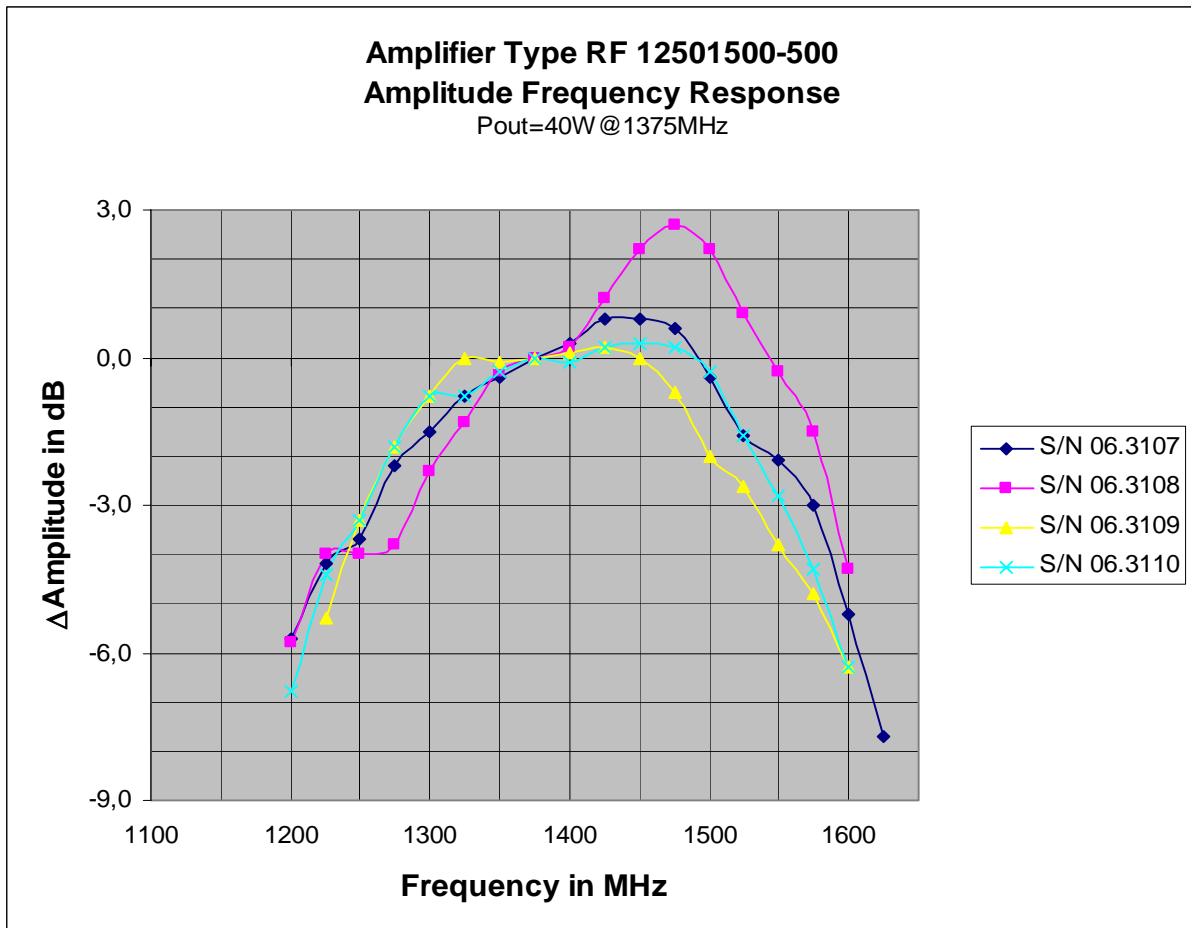
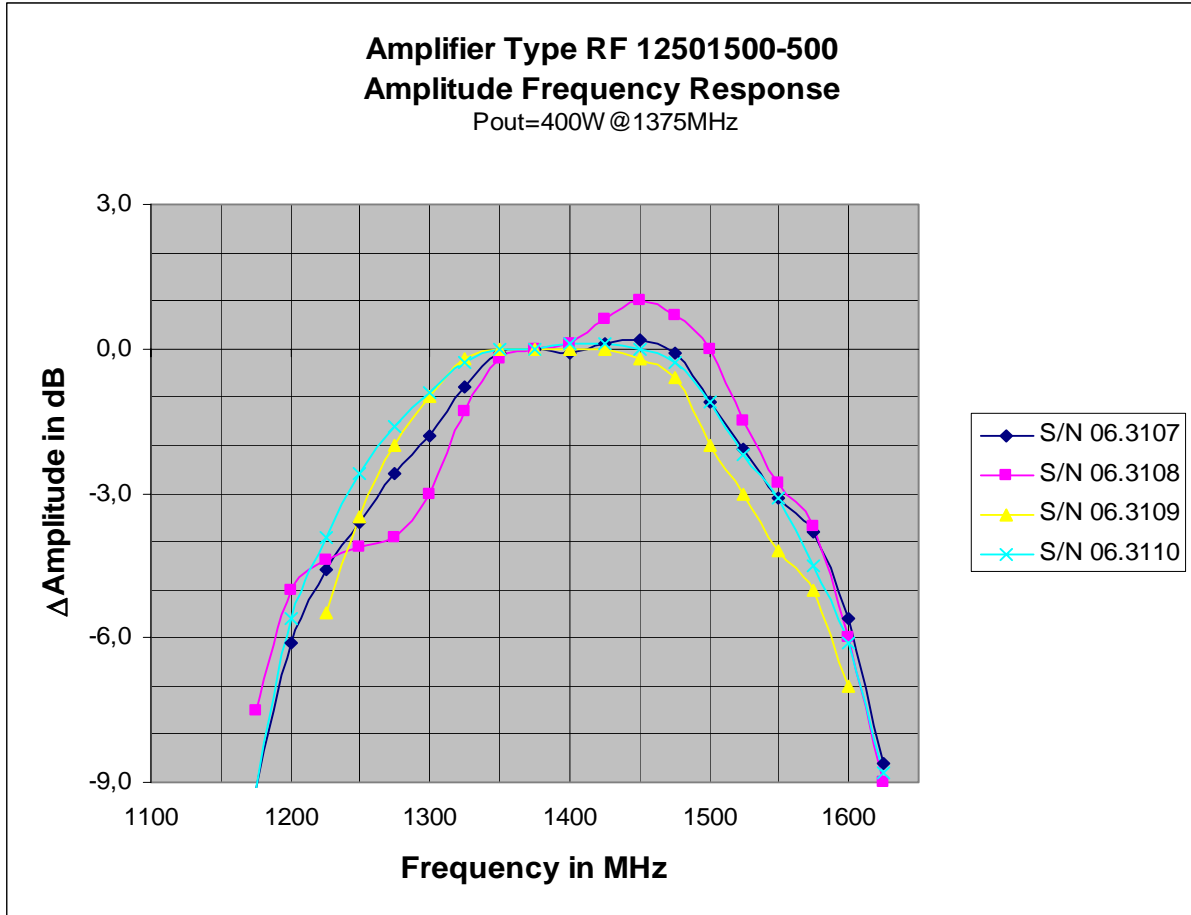


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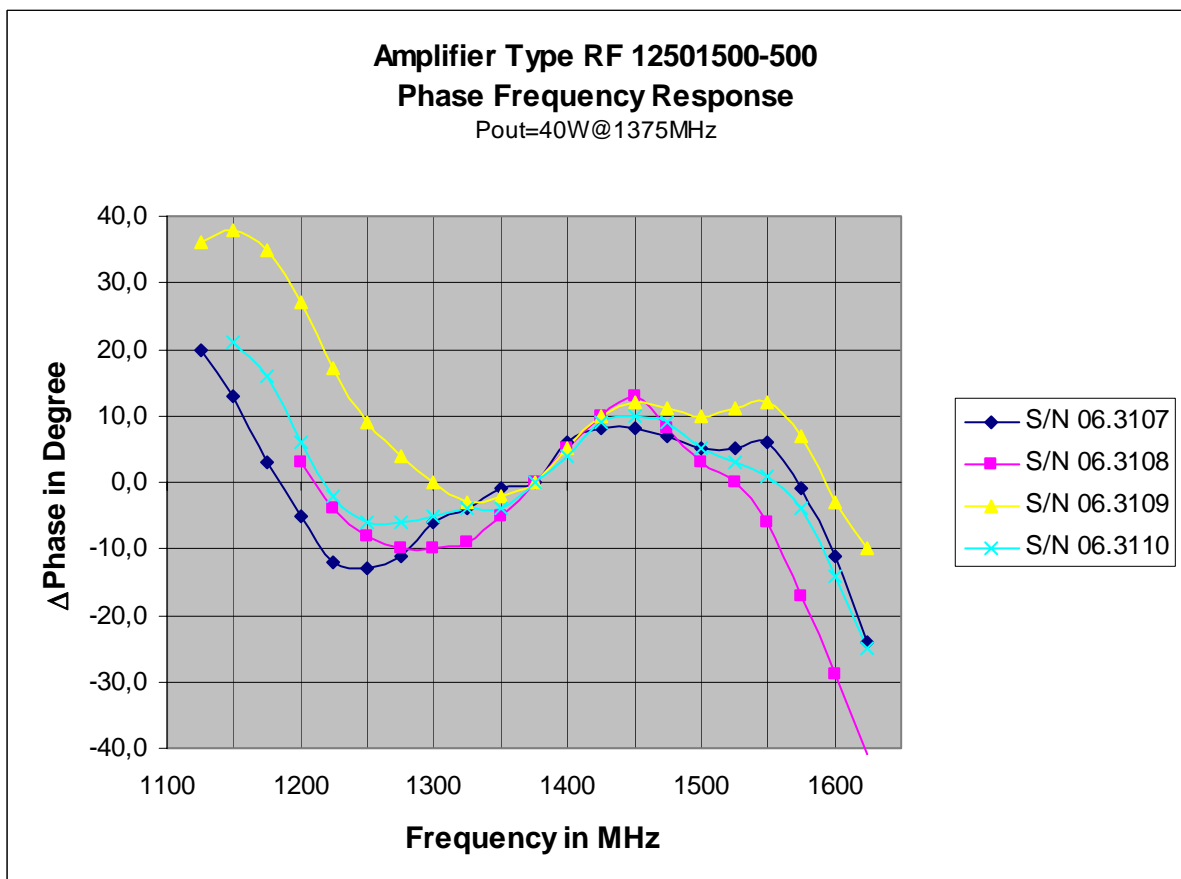
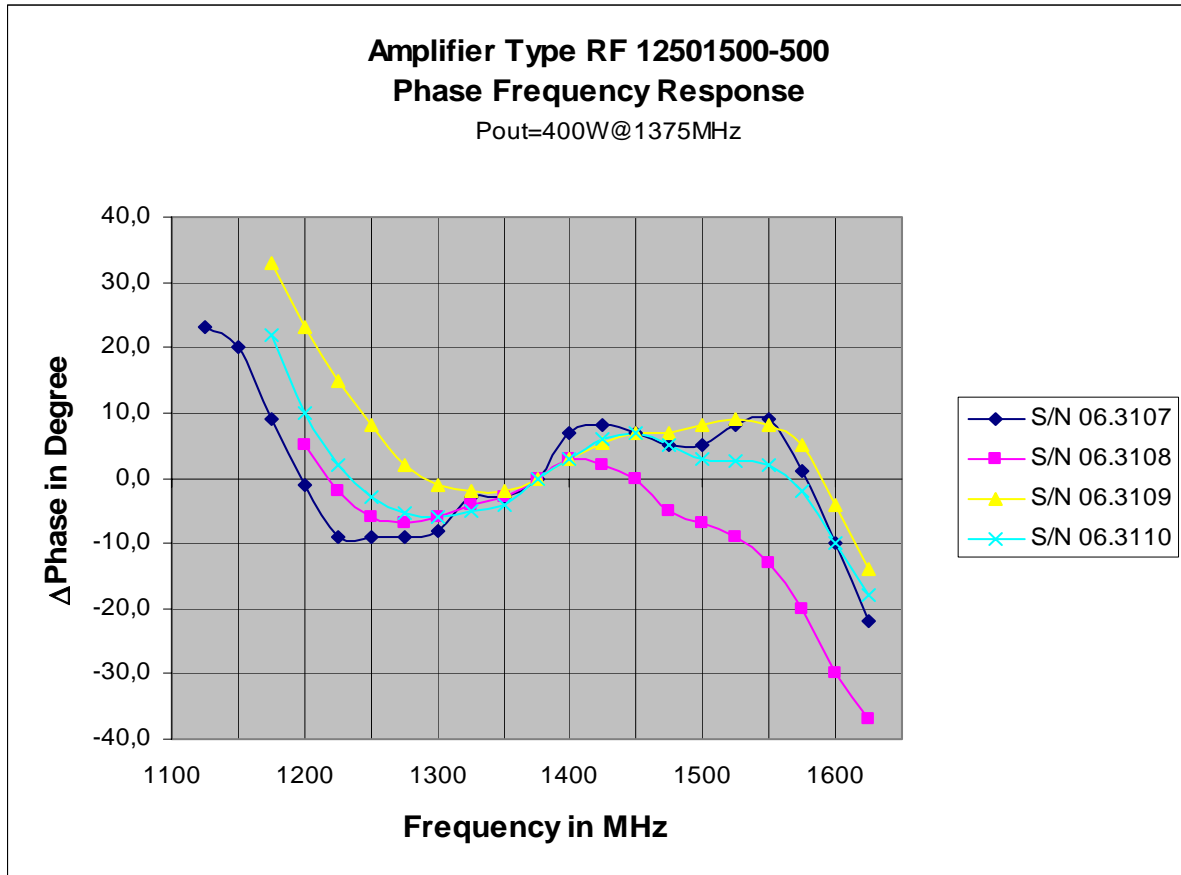


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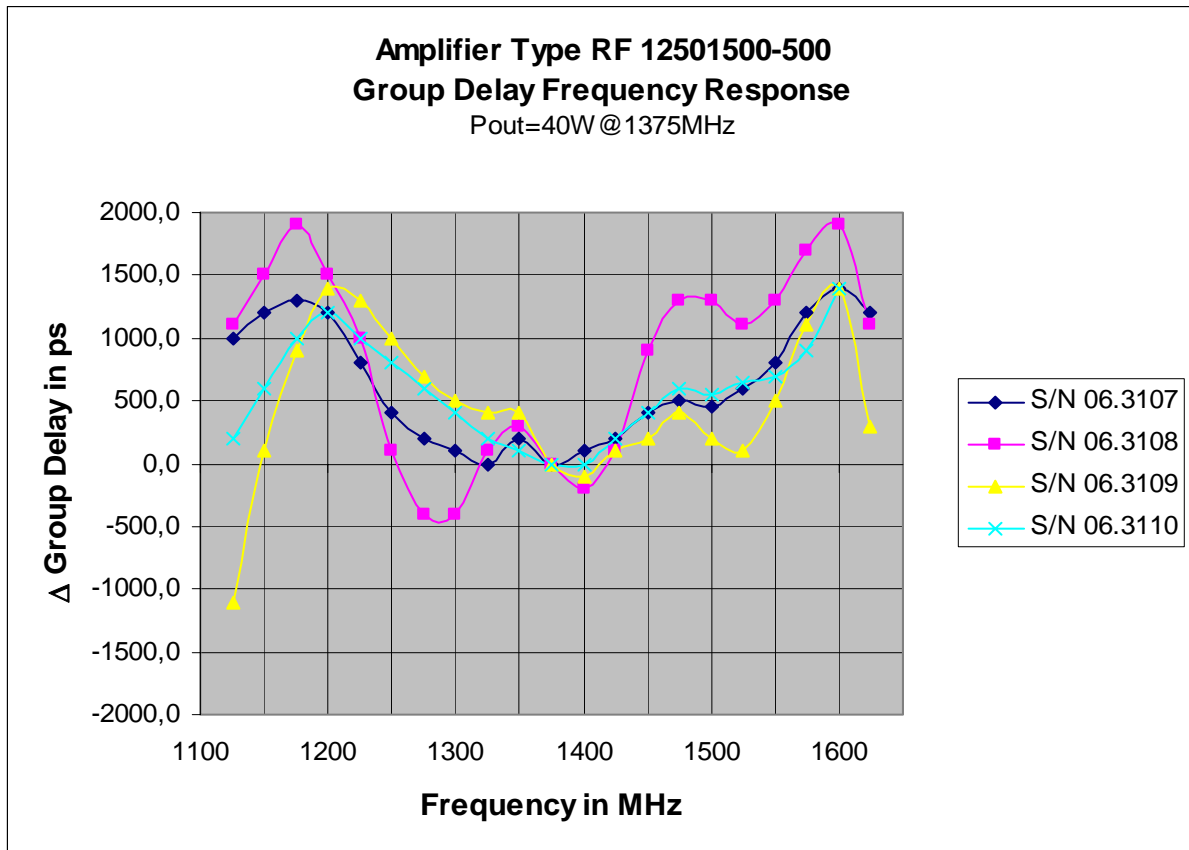


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Intermodulation

f₁: 1365 MHz, 125W

f₂: 1385 MHz, 125W

