

# DATA SHEET

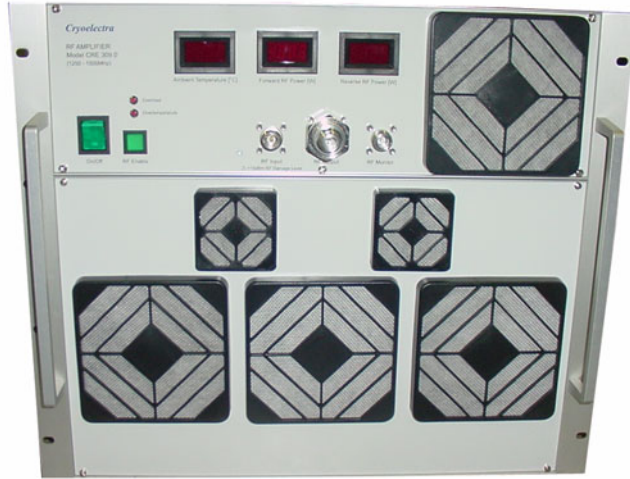
## 500-W Solid State Amplifier 1250-1500 MHz

DESY-MHFe, Vers. 1.1

January 2008

**Type:** CRE-309.0

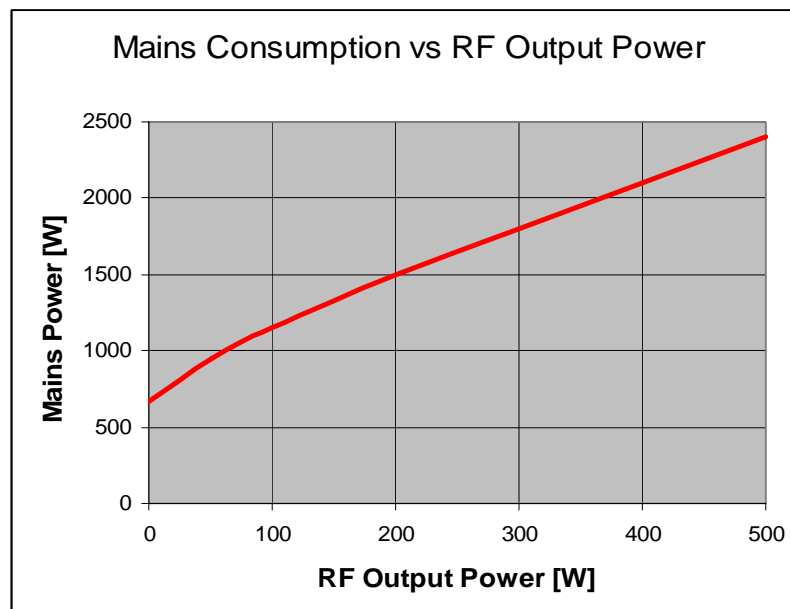
**Manufacturer:** Cryoelectra GmbH, Wettinerstr. 6H, 42287 Wuppertal



- Class AB linear broadband power amplifier.
- LD MOS final stage.
- Forced air cooled.
- Size: 9U, 19''
- Weight: about 61 kg
- Main supply: 230V AC

### Technical Data:

	unit	min.	nom.	max.	remarks
Max. output power (auto switch off)	W	500		750	
Gain	dB	43	50	51.5	
Input power	dBm		7		+15 without damage
Impedance	$\Omega$		50		
Input VSWR	-		1.2:1		
Load reflection	%			100	full reflection protected
Frequency range	MHz	1250		1500	$\pm 1$ dB
Group delay	ns		27		
Group delay variation	ps	350		900	within frequency range 1250-1500 MHz
Harmonics	dBc	-42			
Intermodulation (IP3)	dBc	-33			f1: 1365 MHz, 125W f2: 1385 MHz, 125W
Temperature range	$^{\circ}\text{C}$	10	25	45	

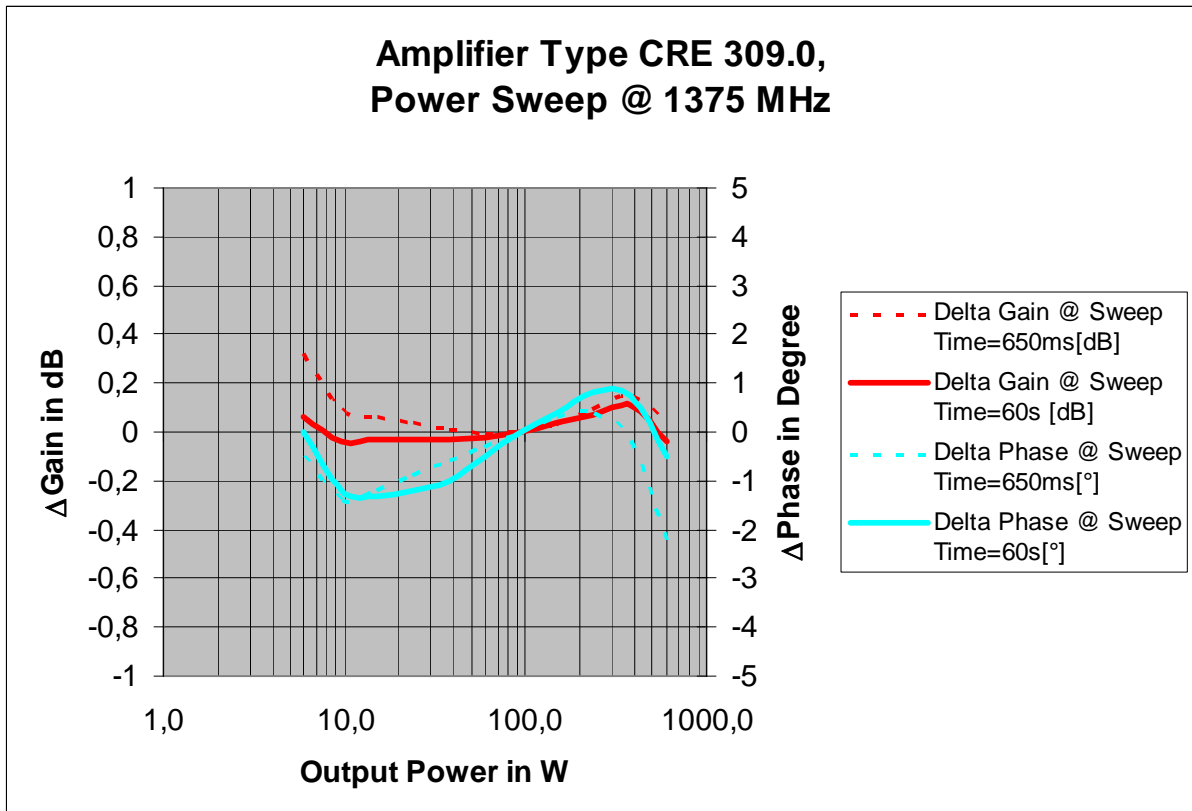
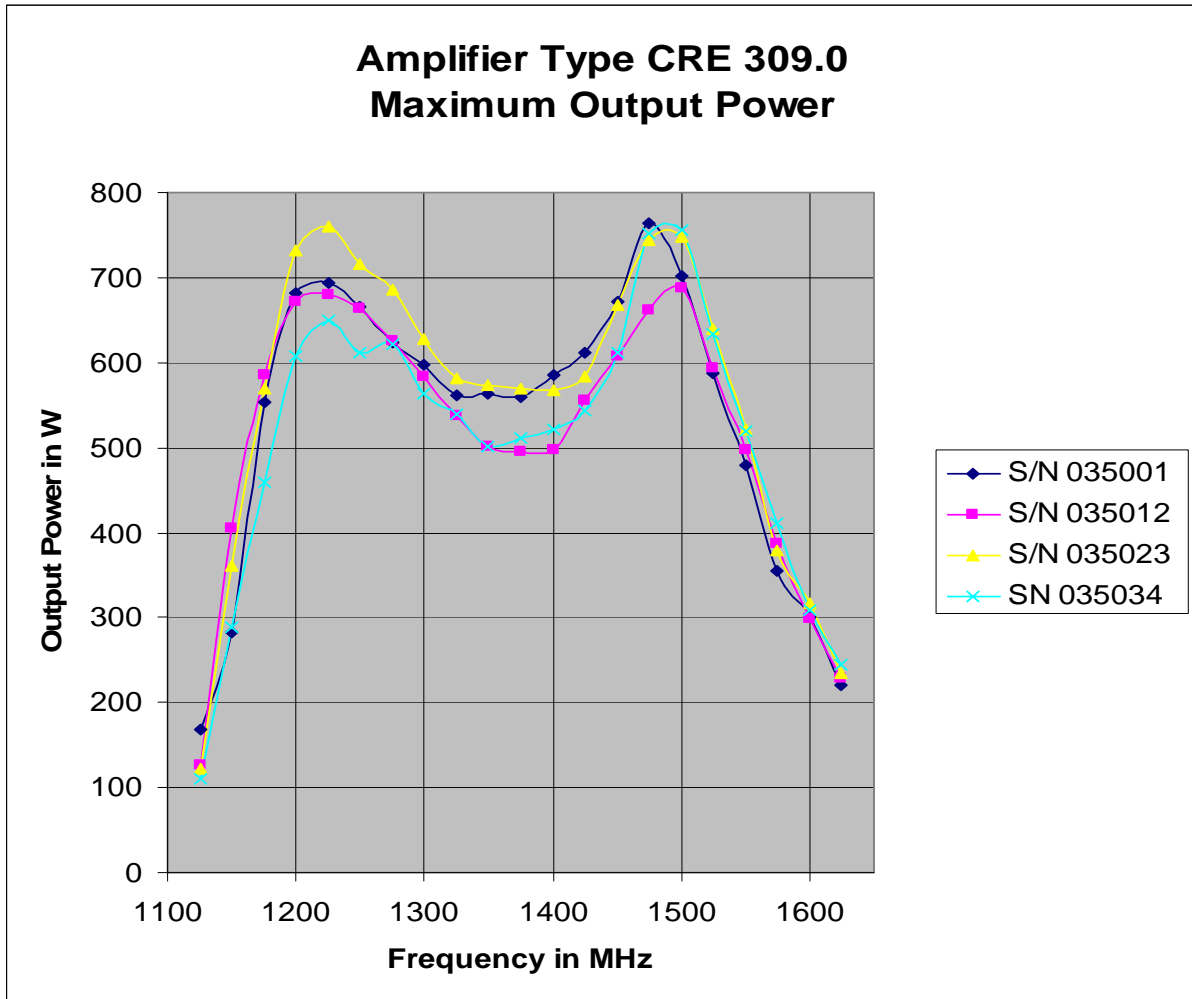


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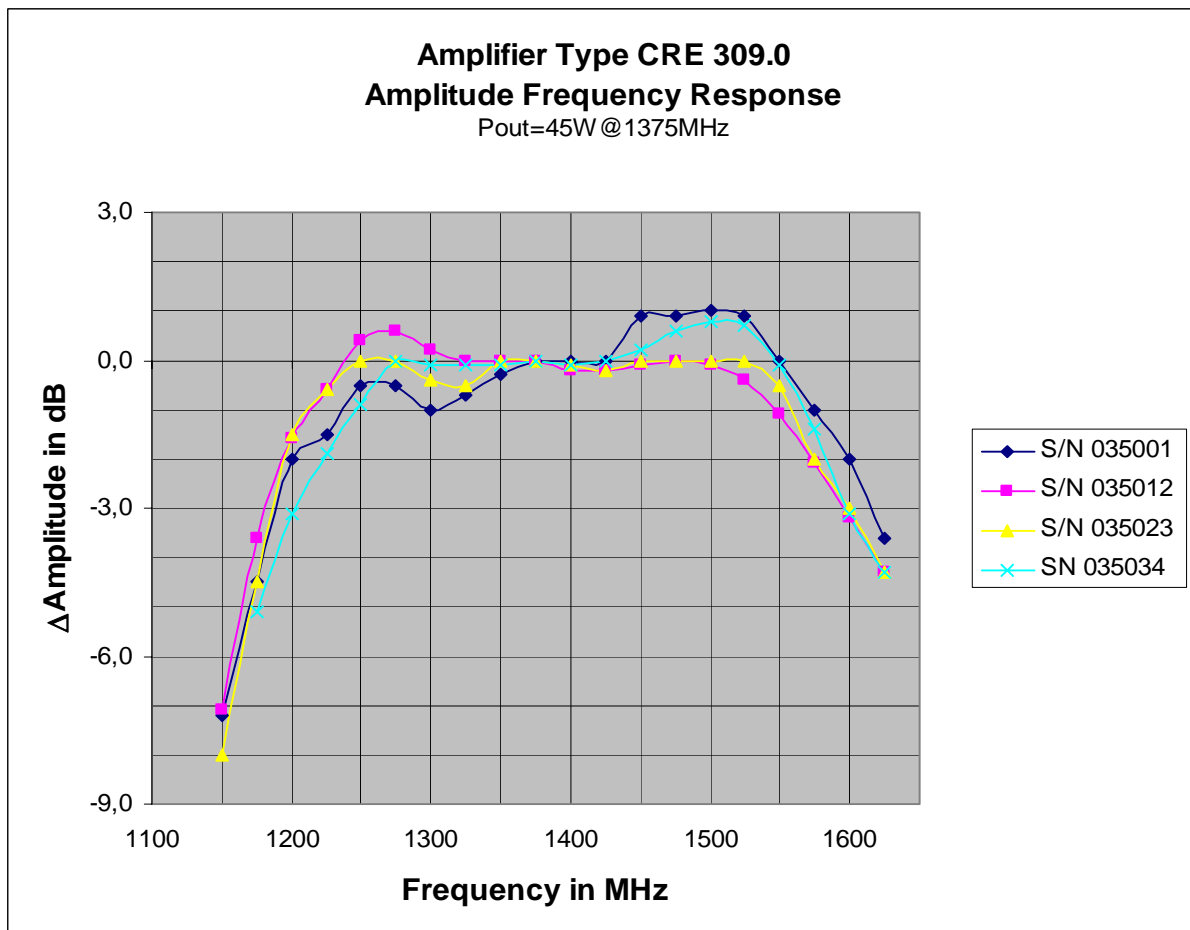
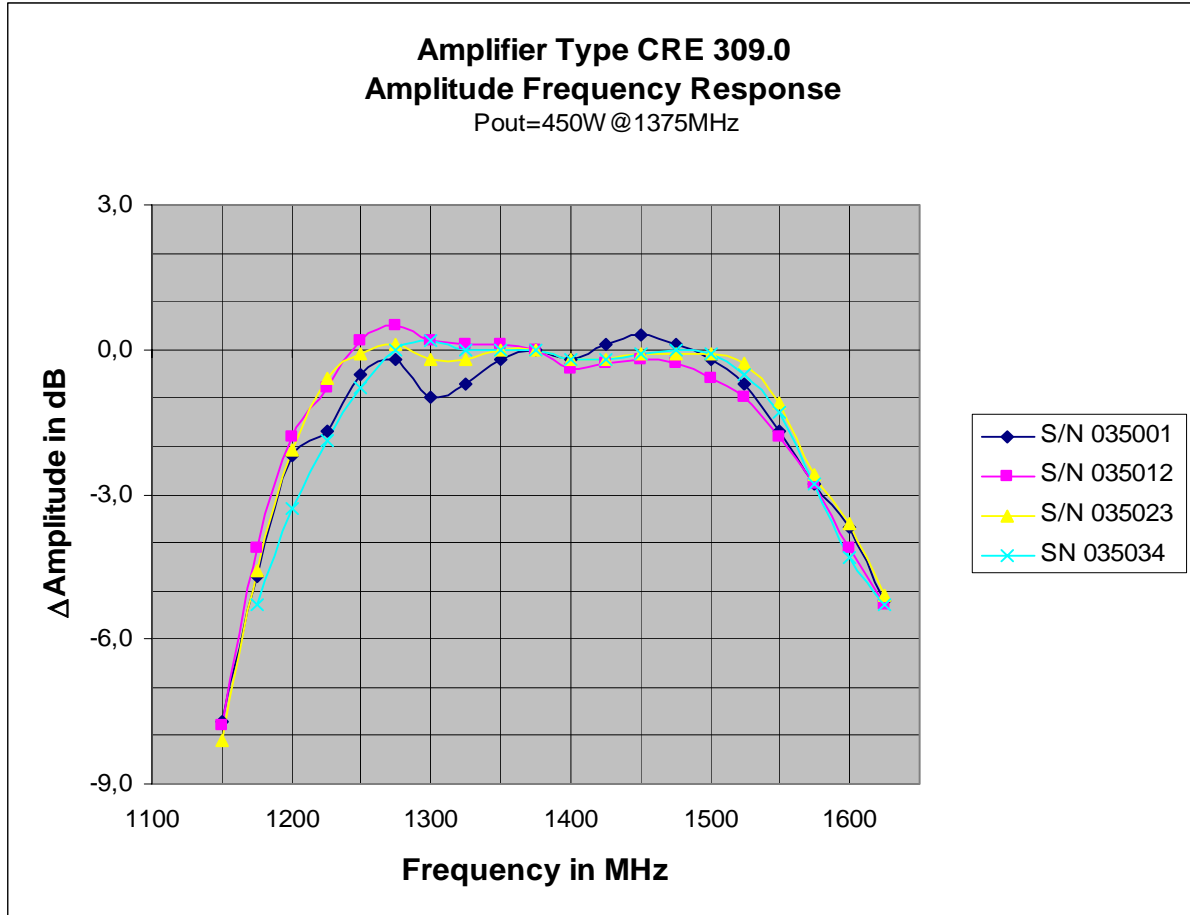


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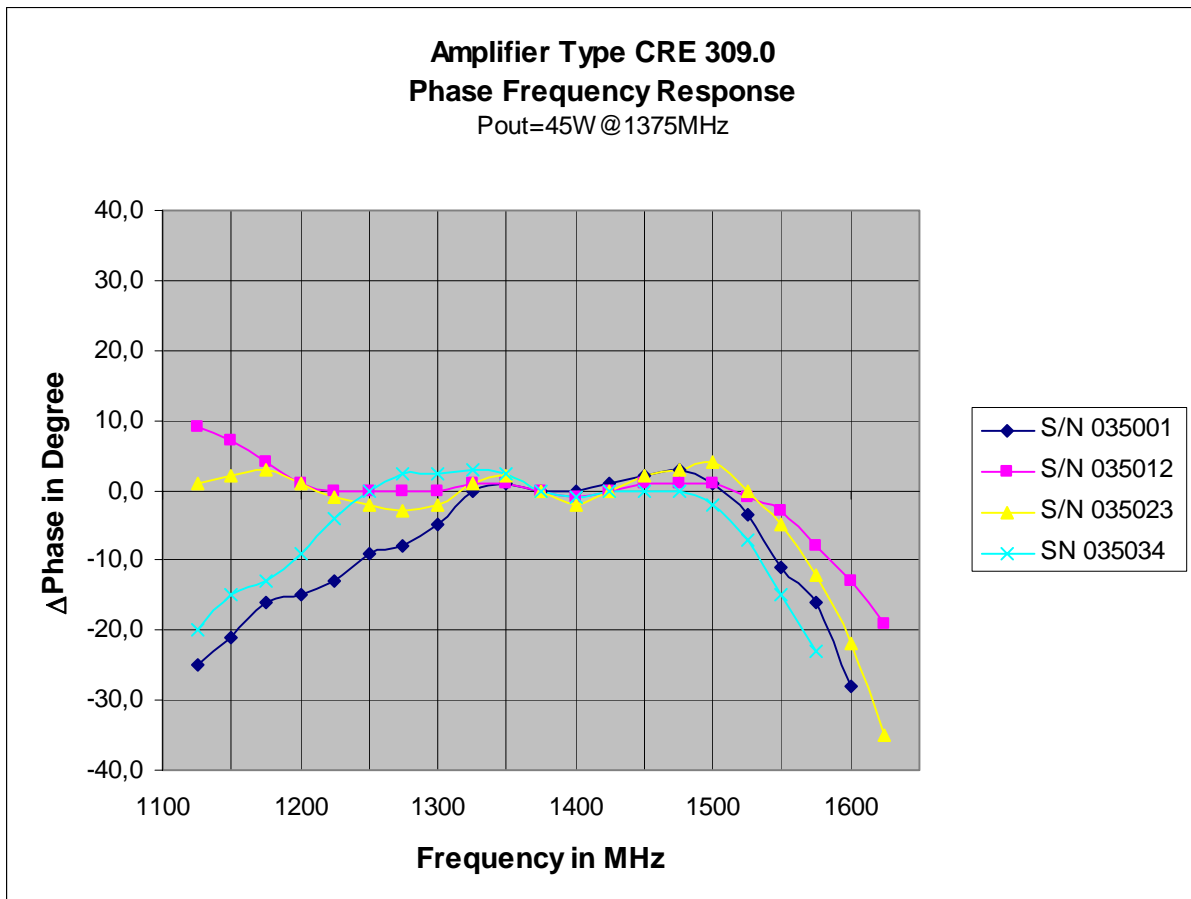
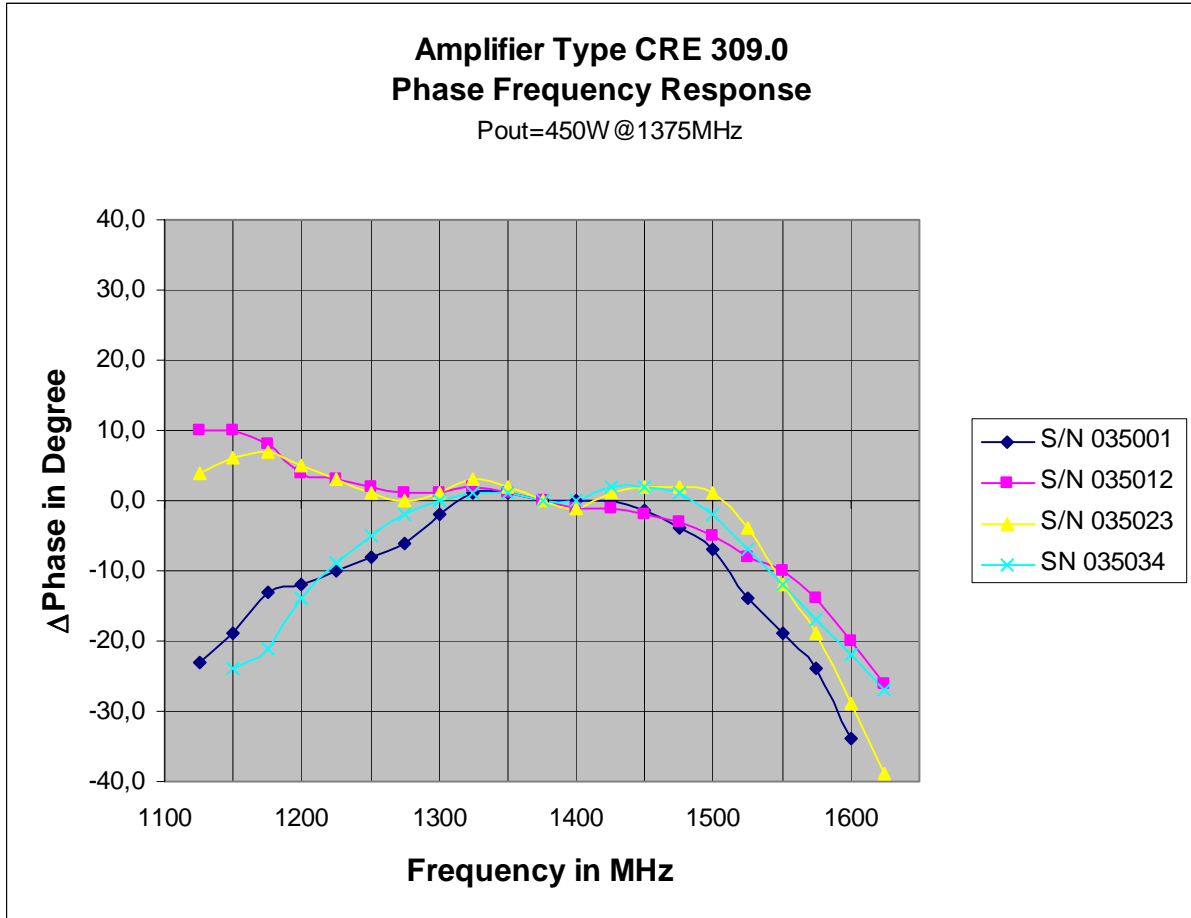


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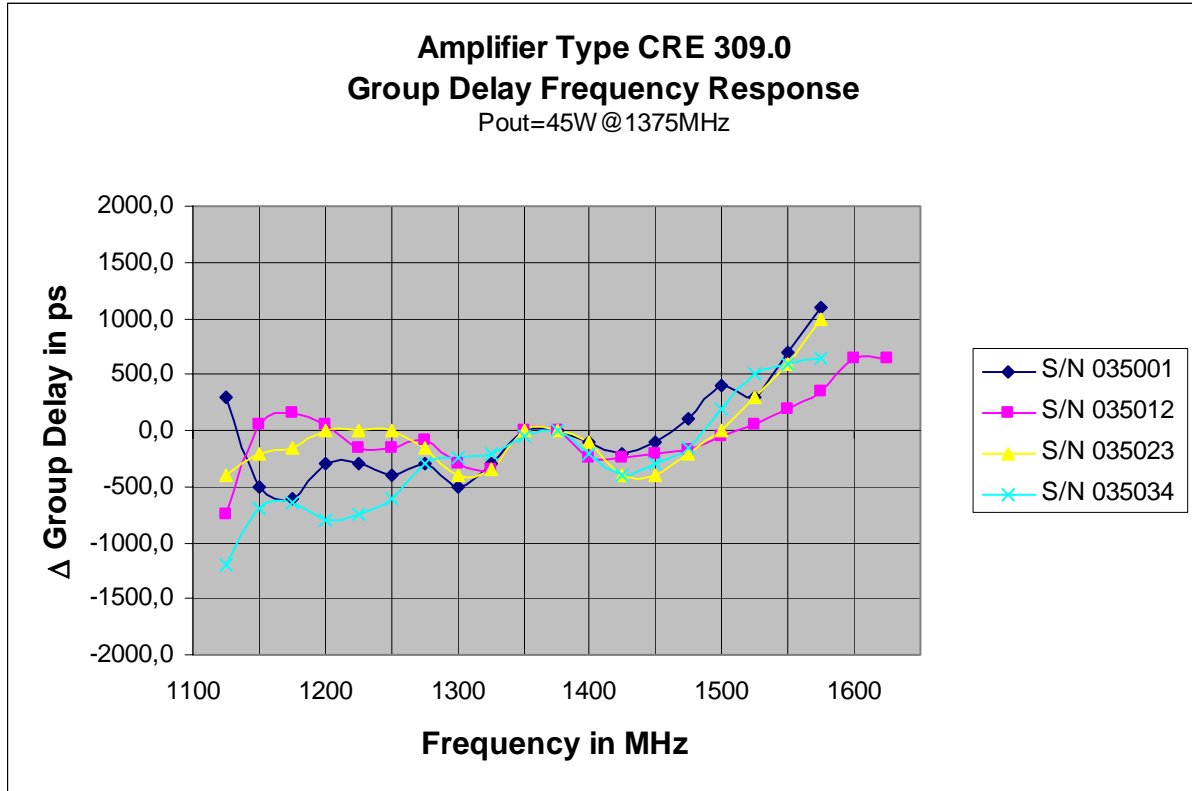


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### Intermodulation

$f_1$ : 1365 MHz, 125W

$f_2$ : 1385 MHz, 125W

