



Measurement of complementary cumulative distribution function (CCDF)		NRT-Z43		NRT-Z44			
Definition		probability in % of forward power envelope exceeding a given threshold (only with 1 → 2 forward direction)					
Measurement range		0% to 100%			0% to 100%		
Threshold level range		0.25 W to 75 W			1 W to 300 W		
Reflection measurement ²⁾ (values in {}: 3 to 4 GHz)							
Definition		measurement of load match in terms of SWR, return loss or reflection coefficient					
Reflection measurement range		0 dB to 23 {20} dB / 1.15 {1.22} to ∞ / 0.07 {0.10} to 1					
Return loss/SWR/reflection coefficient							
Min. forward power		0.007 [0.07] W (specs met from 0.05 [0.5] W)		0.03 [0.3] W (specs met from 0.2 [2] W)			
General data		NAP-Z3	NAP-Z4	NAP-Z5	NAP-Z6		
Power measurement range ¹⁾		0.01 W to 35 W	0.03 W to 110 W	0.1 W to 350 W	0.3 W to 1100 W		
Frequency range		25 MHz to 1 GHz	25 MHz to 1 GHz	25 MHz to 1 GHz	25 MHz to 1 GHz		
SWR (referred to 50 Ω)		1.03 max.	1.03 max.	1.03 max.	1.05 max.		
Insertion loss up to 0.3 GHz		0.10 dB max.	0.08 dB max.	0.08 dB max.	0.05 dB max.		
up to 0.5 GHz		0.25 dB max.	0.15 dB max.	0.15 dB max.	0.10 dB max.		
total frequency range		0.75 dB max.	0.35 dB max.	0.20 dB max.	0.15 dB max.		
Directivity		30 dB min. (30 MHz to 1 GHz), 26 dB min. (25 MHz to 30 MHz)			35 dB min. (1.5 MHz to 30 MHz)		
Average power measurement							
Measurement range		0.01 W to 35 W	0.03 W to 110 W	0.1 W to 350 W	0.3 W to 1100 W		
Measurement uncertainty at 20 to 25°C		6% of reading	6% of reading	6% of reading	6 [4] % of reading (1.5 MHz to 30 MHz) value in brackets: sensor-specific calibration factors taken into account		
Measurement of peak envelope power							
Measurement range for return loss/SWR/ reflection coefficient		0 dB to 23 dB / 1.15 to ∞ / 0.07 to 1 (30 MHz to 1 GHz)			0 to 28 dB / 1.08 to ∞ / 0.04 to 1 (1.5 to 30 MHz)		
Minimum forward power		0.1 (0.6) W	0.3 (2) W	1 (6) W	3 (20) W		
		0.5 (10) W					
		5 (100) W					
		specs met with power values in ()					
General data		NAP-Z10 (model 02)	NAP-Z11 (model 02)				
Power measurement range ¹⁾		0.005 W to 20 W		0.05 W to 200 W			
Frequency range		35 MHz to 1 GHz		35 MHz to 1 GHz			
SWR (referred to 50 Ω)		max. 1.03		max. 1.03			
Insertion loss up to 0.3 GHz		0.10 dB max.		0.08 dB max.			
up to 0.5 GHz		0.25 dB max.		0.15 dB max.			
total frequency range		0.75 dB max.		0.20 dB max.			
Directivity		30 dB min. from 40 MHz to 1 GHz 26 dB min. from 35 to 40 GHz					
Average power measurement							
Measurement range		0.005 W to 20 W		0.05 W to 200 W			
Measurement uncertainty at 20 to 25°C		6.5% of reading		6.5% of reading			
Measurement of peak envelope power							
Measurement range		0.05 W to 20 W		0.5 W to 200 W			
AM		50 Hz to 100 kHz		50 Hz to 100 kHz			
Burst width t		min. 4,5 µs		min. 4,5 µs			
Repetition rate 1/T		min. 50/s		min. 50/s			
Reflection measurement							
Measurement range Return loss/SWR/ Reflection coefficient		0 dB to 23 dB/1.15 to ∞/0.07 to 1 (40 MHz to 1 GHz)					
Minimum forward power		0.05 (0.35) W		0.5 (3.5) W			
		specs met with power values in ()					
Measurement time		equal to measurement time of selected power measurement function, shortest with average power measurement					

