

Magnetron	Magnetron test capabilities	Pulsed Power
		s-band < 3,1 MW peak
		x-band all available magnetrons
	Standard Testing: Pulsed Power	Screening for quality, Number of arcs during normal operation
		Matching with Pulse Modulator
	Peak Voltage and Current	
	Peak Power	
	Average Power	
	Efficiency	
	Magnet setting	
	x-ray radiation	
	optical heat detection	
	Filament backdown schedule	
Extended test package: Microwave	Rieke diagram	
	Spectrum	
	Power vs. Frequency	
	frequency tunability	
	Influence of filament heating	
	Voltage rate of raise	
Extended Test package: Temperature and magnetic field	Water flow and temperatures	
	Bodytemperature	
	Magnet influence	
	performance vs. Temperature	
Extended Test package: Life Test	life test (cycle testing)	
Circulator	Standard	return loss, complex
		insertion Losses calorimetrically measured
		sliding short test
		power handling
		pulse forming
		Magnetic stray field
		RF stray radiation
		gas pressure testing
		temperature dependency*

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Load	Standard	power handling
		return loss vs power
		body temperature
		E-probe damping**
		gas pressure testing
phase wand	standard	reflections to magnetron
		Power handling, peak and average
		Gas pressure testing
accelerating waveguide	cold test	voltage handling of E-Gun
		vacuum pump current
		filament heating
		s11 over frequency
		bake out
	hot test	beam characterisation close to focus, at SAD 1000 mm, 800 mm and 1200 mm
		penumbra
		uniformity
		dose rate
Control loop		AFC circuit, frequency stability
		Power level stability
		Dose rate stability

* depending on customer special request

** if available