

VKX-8253A

The VKX-8253A is an electromagnet focused, 9.3 GHz klystron which has demonstrated peak power of 5.5 MW with 18 kW average, at an RF pulse width of 9 μ s. The klystron achieved power of 6 MW peak at 6 kW average. The unit was designed to achieve 20 kW average power at 5 MW peak.



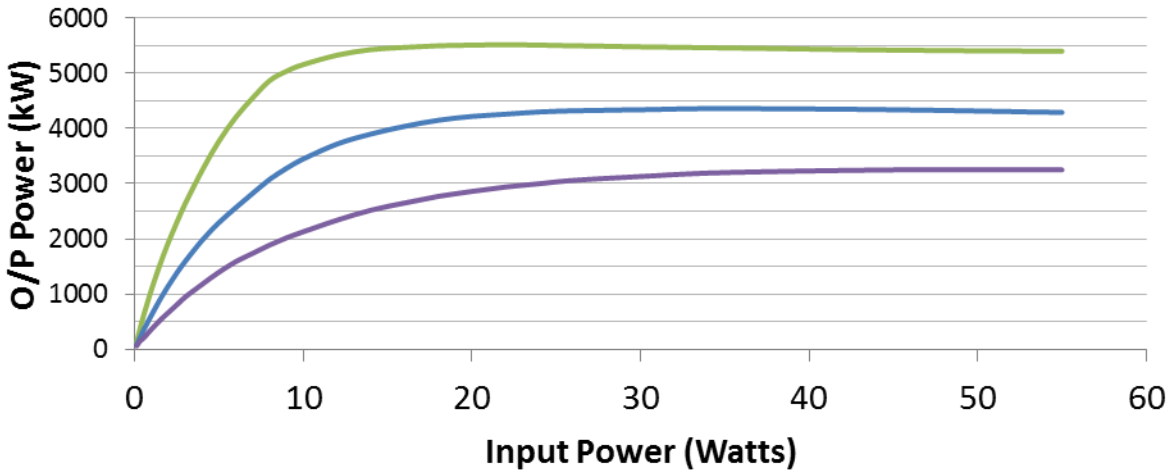
FEATURES

- Proven Medical, Scientific, and Industrial Klystron Derivation
- Low Cost, High Volume Manufacturing Design
- Proven S Band Gun Design
- Typical Life Exceeds 80,000 Hours
- Possible to Scale to 12 GHz Version

Prototype Operating Parameters		
Item	Value	Units
Beam Voltage	132	kV
Beam Current	95	A
Frequency	9.3	GHz
Bandwidth, 1dB	± 10	MHz
Peak Power	5.5	MW
Average Power	18	KW
Saturated Gain	51	dB
Efficiency	44.3	%
Pulse Width	2.5	μ s
Duty	0.34	%

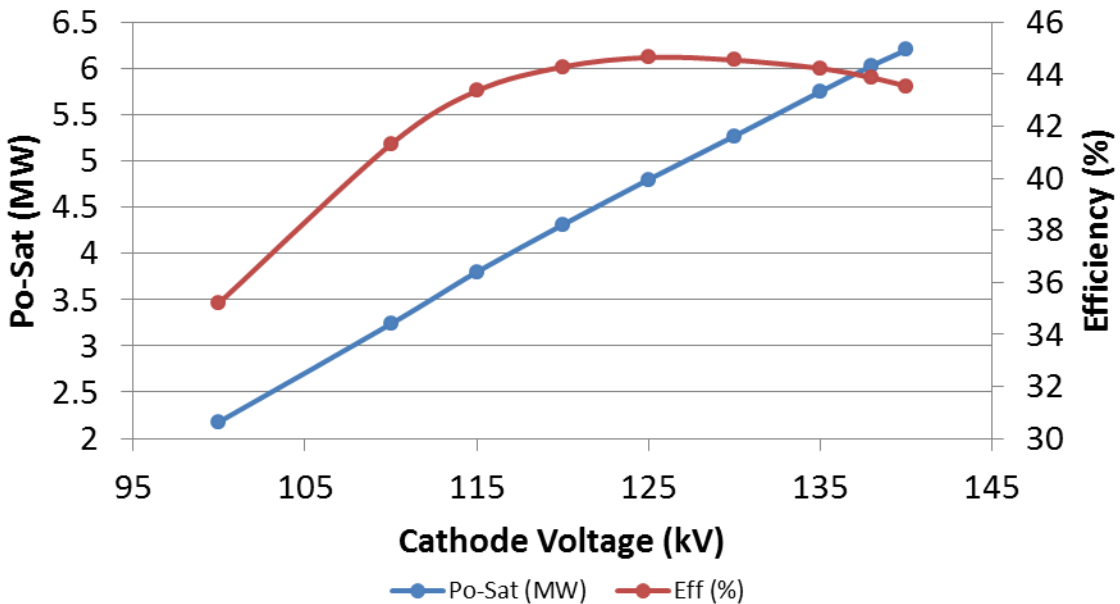
The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.

VKX-8253A Transfer Curves 9.3GHz, 2/21/2012



— O/P Power, 132kV, 93.1A — O/P Power, 120kV, 81A — O/P Power, 110kV, 71.3A

VKX-8253A Saturated Power and Efficiency vs. Cathode Voltage Duty 0.05%, Frequency 9.3 GHz



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