

M-SERIES M050-i



RF PEAK POWER UP TO 2 MW MODULATOR PEAK POWER UP TO 4 MW

ScandiNova's smallest magnetron pulse modulator in a very compact enclosure with single-phase AC power requirements and air cooling. The modulator is designed for custom integration into your application and to handle magnetrons in the range 0.2 MW to 2 MW. We provide everything from a pure high-power pulse modulator to a turn-key RF station including the magnetron, control system and related components.

SYSTEM SPECIFICATIONS	UNIT	DATA	NOTES
Magnetron RF Peak Power	MW	0.2–2	Depends on choice of magnetron
Magnetron RF Average Power	kW	0.4	Maximum
Modulator Peak Power	MW	0.6-4	Typical range
Modulator Average Power	kW	1	Maximum (see options)
Pulse Voltage	kV	20-40	Typical range
Pulse Current	А	20-100	Typical range
Pulse Repetition Frequency Range	Hz	1–500	Typical range. Depending on max average power (see options).
RF Pulse Length	μs	0.1-4	Typical range. Depending on max average power.
Modulator Voltage Stability, RMS	%	0.4	Verified on resistive load (see options)
Cooling		Air	

INTERFACE	DEFAULT	OPTION	
Mains Power, Single Phase	230 VAC, 50/60 Hz	115 VAC	
Control Interface	ModBus TCP		
Trig Input	Electrical	al	
Diagnostics	Pulse Voltage and Current	See Options	

Standard Modulator Includes

Control System
Remote Control
Filament PS
Pulse Sensors
Internal Trig Generator

Options

Pulse/RF diagnostics Enhanced PRF Range (1000–2000 Hz) Enhanced Stability (down to 0.1%) Digitizer

Size and Weight

Weight approx. 60 kg

Information contained in this document is subject to change without notice.

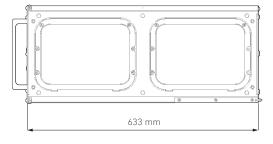
Additional System Components

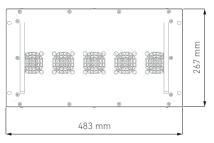
Circulator & RF Loads
Directional Coupler
Magnet PS
Waveguide windows
Magnetron

Typical Magnetron Loads

NJRC MX7637 MX7638 MX7639

BVERI	E2V
VE2042B	MG5125
VE2093	L3
CPI	PMX1100
SFD303B	L-0123S
SFD313	L-0124S
VMC1081	L-0500C
VMS1610	L-0777C
VMX3045	L-0778C
VMX3095	L-6170
5586	
5657	





HEADQUARTERS

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