Communications & Power Industries Klystron

CPI Microwave Power Products (MPP) offers the VKS-8262 series of klystrons for use in particle accelerators for scientific, medical, and industrial applications. These klystrons provide up to 7.5 MW peak at 2.856 or 2.9985 GHz at various rf pulse lengths and duty. Versions are available with up to 36 kW of average output power at 2.856 GHz and 72 kW at 2.9985 GHz.

FEATURES:

- Diode electron gun
- Water cooled
- Electromagnet focusing
- WR-284 waveguide output
- Long life
- Proven reliability

BENEFITS:

- High reliability & efficiency
- Proven long-life designs
- Customizable models for your application

APPLICATIONS:

- Particle accelerators for scientific, medical and industrial applications

CPI S-Band Pulsed Klystrons: VKS-8262

Typical Operating Parameters

Product	VKS-8262S	VKS-8262J	VKS-8262M	VKS-8262F	VKS-8262P1
Frequency (GHz)	2.856	2.856	2.856	2.856	2.856
Peak output power (MW)	5.5	4.5	3	5	5
Peak drive power	200	200	80	200	200
Bandwidth (-3 dB) (MHz)	5	5	5	4	4
Peak beam voltage* (kV)	127	125	110	125	125
Peak beam current* (A)	92	92	72	91	92
RF Pulse length (µSec)	5.8	10	10	16.3	16.3
Duty (%)	0.00104	0.00314	0.004	0.0072	0.009

Typical Operating Parameters

Product	VKS-8262G	VKS-8262E	VKS-8262D	VKS-8262HS	VKS-8262K	VKS-8262N
Frequency (GHz)	2.9985	2.9985	2.9985	2.9985	2.9985	2.9985
Peak output power (MW)	7.5	6	5.5	3	5	5
Peak drive power	120	200	200	80	200	200
Bandwidth (-3 dB) (MHz)	5	5	5	5	5	5
Peak beam voltage* (kV)	160	135	130	110	125	125
Peak beam current* (A)	110	109	105	72	91	92
RF Pulse length (µSec)	4.5	5.0	5.8	10	16.3	16.3
Duty (%)	0.001	0.001	0.001	0.004	0.0072	0.0144

With a history of producing high quality products, we can help you with your klystron.
Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800. The data should be used for basic information only
Formal, controlled specifications may be obtained from CPI for use in equipment design.

Communications & Power Industries

Microwave Power Products Division
811 Hansen Way
Palo Alto, California
USA 94304

tel +1 650-846-2800
fax +1 650-856-0705
email MPPMarketing@cpii.com
web www.cpii.com/MPP

9/20