

CPI Microwave Power Products (MPP) offers IOT's for particle accelerator applications. Integral Cavity Inductive Output Tubes (IC IOT) have been created by utilizing the fundamental electrical design of our external cavity IOT used in terrestrial UHF television broadcasting and incorporating conventional klystron cavity and coupling technology. The VKL-9130A is an IC IOT that provides 30 kW CW or 90 kW pulsed at 1300 MHz. CPI also offers IC IOTs that provide 90 kW CW at 500 MHz and 80 kW CW from 650 MHz to 805 MHz.

FEATURES

- VKL-9130A (30 kW CW)
- VKL-9130B (90 kW pulsed)
- Coaxial Output Window with Alumina Ceramic
- Water cooled collector, cavity and coupling loop
- Air cooled input circuit and electron gun
- Compact size with collector water below
- Requires VYW-9130A (magnet, I/P circuit & stand)



TYPICAL OPERATING PARAMETERS

ITEM	VALUE	UNITS
Frequency	1300	MHz
Power Ave. / Pk	30 / 90	kW
Beam Voltage	35 / 42	kV
Beam Current	1.3 / 3.4	A
Drive Power	<500 / 900	W
1 dB Bandwidth	>2	MHz
Gain	>20	dB
Efficiency	>60	%
Main Coil Current	15-25	A
Main Coil Voltage	7.2 - 7.8	V
Height	39 / 99	inches / cm
Weight	255 / 104	pounds / kg

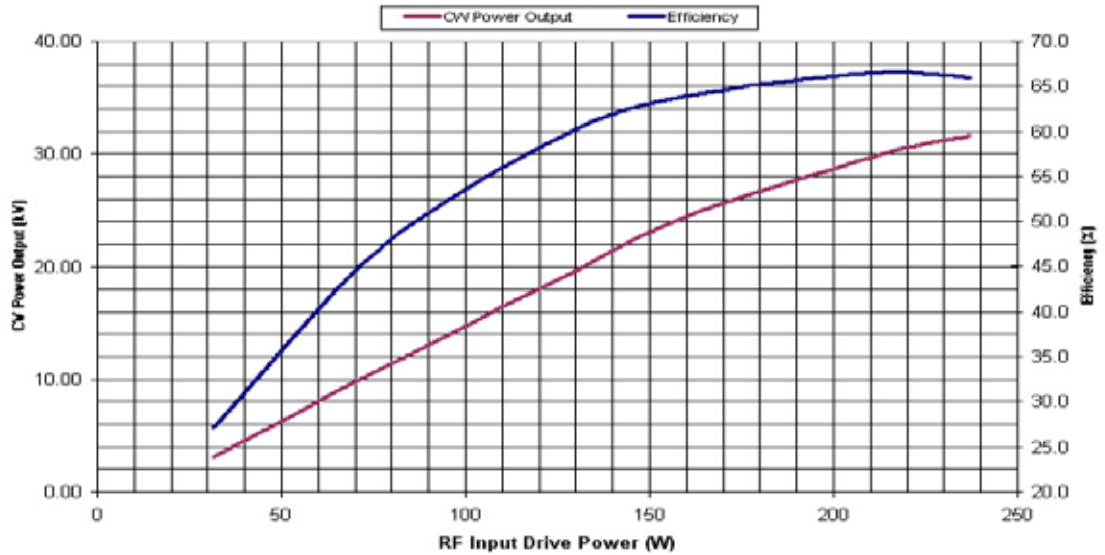
The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.



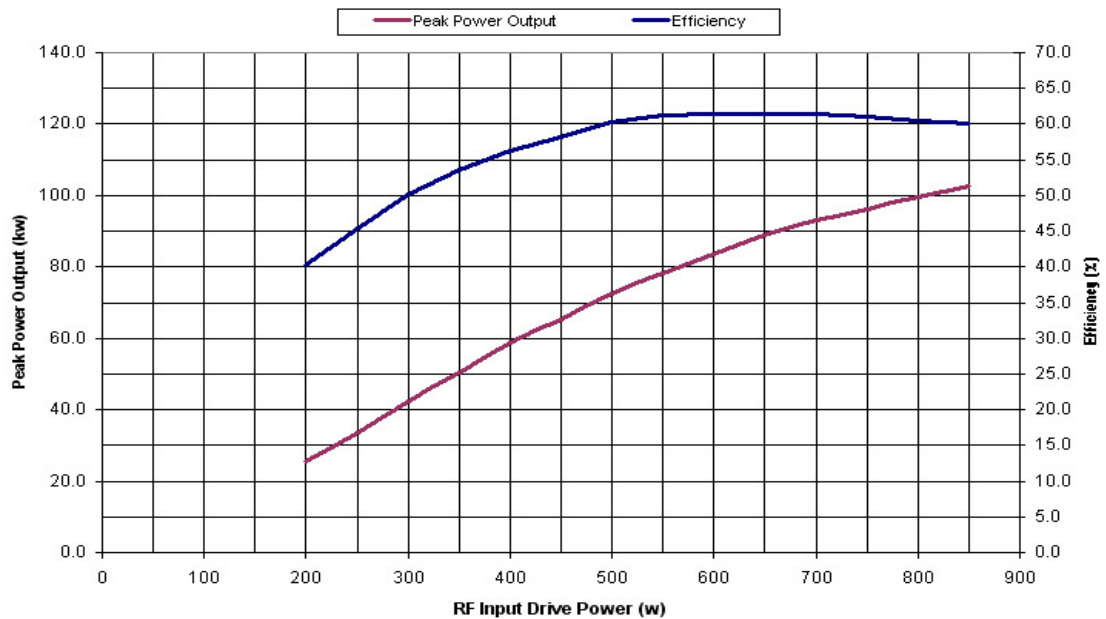
For information on this and other CPI products, visit our website at: www.cpii.com,
or contact: CPI MPP Division, 607 Hansen Way, Palo Alto, CA 94303

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VKL-9130A CW Power Output & Efficiency vs. RF Input Drive Power
E_b = 32kV, V_g = -90V



VKL-9130B Peak Power Output & Efficiency vs. RF Input Drive Power
E_b = 42kV, V_g = -105V



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