C-Band Klystrons VKC7980 - Wide Bandwidth Series

The Wide Bandwidth C-Band klystron series is designed for use in ground based earth-to-satellite communication amplifiers. This family of klystrons provides a minimum output power of 3000 watts over an instantaneous bandwidth of 80 MHz. These klystrons are configured to provide users with 12 channels thus allowing operators to select preset center frequencies within seconds. As an option, Digital Fast Tuner System (DFTS) channel changers are available for sub-second selection of up to 50 channels.



RF and Electrical Specifications

Frequency Range (Channel Cen VKC7980B VKC7980W	ters) 5.850 to 6.450 GHz 5.850 to 6.480 GHz				
Output Power All Models	3000W				
Instantaneous Bandwidth - minimum at –1 dB points All Models 80MHz					
Gain - minimum (At rated power)	30 dB				
Beam Voltage - maximum	8.5 kV				
Beam Current - maximum	1.15A				
Heater Voltage - nominal	6.0 V				
Heater Current - typical	6.1 A				

Physical Characteristics

Dimensions	See outline drawings.		
Weight - approximate	70 lb (32 kg)		
Operating Orientation	Collector up		
Cooling collector flow - minimum body flow - minimum	Forced Air 1000 lb/hr (450 kg/hr) 90 lb/hr (41 kg/hr)		
RF Connectors			
output	Mates with CPR-137F flange		
input	Mates with type "N" plug, UG-21D/U		
Focusing	Integral permanent magnet		



VKC7980 - Wide Bandwidth Series

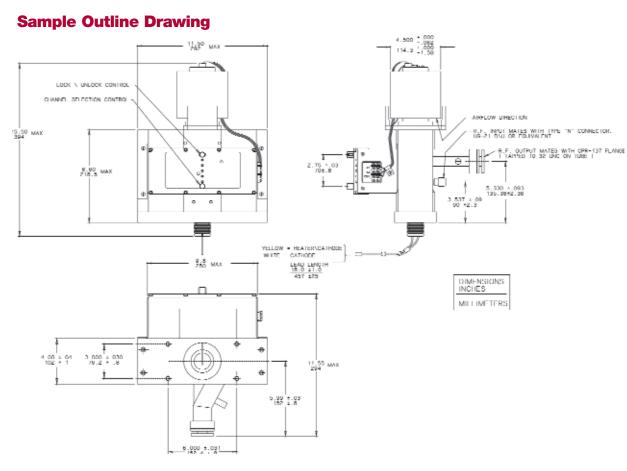
Typical Characteristics

Туре	Frequency Range (GHz)*Note 1	Instantaneous Bandwidth (MHz)*Note 2	Output Power (W)	Gain (dB)	Beam Voltage (kV)	Beam Current (mA)
VKC7980B	5.850 - 6.410	89	3100	33	8.3	1.14
VKC7980W	5.850 - 6.460	89	3100	34	8.4	1.14

• Note 1: Frequencies listed are channel centers.

• Note 2: Bandwidth measured at -1dB points.

• For full specifications please contact CPI.



For complete information on the full Wide C-Band Series and other klystrons used in satellite communications, please contact your local CPI office, or CPI Canada Inc.



Communications & Power Industries Canada Inc. 45 River Drive / Georgetown, Ontario / Canada L7G 2J4 Hot Line Telephone: 1-800-267-JETSAT Tel: (905) 877-0161 Fax: (905) 877-5327 E-MAIL: marketing@cmp.cpii.com WEB: www.cpii.com/cmp