JOINT ELECTRON TUBE ENGINEERING COUNCIL

RETMA TYPE DESIGNATION REGISTRATION FORM FOR KLYSTRONS

Manufacturer's

Release No.

	Designation	BL-803					
Manufacturer's Name			_				
Varian Associates, Bomac Division	Data Bureau D	esignation _	6781				
The 6781 klystron is an oscillator for the first transfer to the first transfer transfer to the first transfer tr	-	-	_				
Output fittings are designed for use wis mended operating frequency lies betwee The power output is approximately 20 to	th RG52/U waveguiden 8.5 and 10.0 kil	de. The red o megacycle	com- es.				
tube is air cooled. The 6781 klystron is designed for use as a local oscil-							
lator.							
ELECTRICAL DATA							
Heater Voltage		6.3 Volts					
Heater Current	_	1.2 Amps	•				
Maximum Frequency	Ĩ	0.0 kmc					
Minimum Frequency		8.5 kmc					
MECHANICAL DATA							
Base and Physical Dimensions - See	outline drawing.						
Base Connections A = H, B = H, C = Body, D = Ref., E = Cathode							
Cavity Integral Cavity Type							
Mounting Information Any position from waveguide flange							
Cooling Data (specify) No Cooling		-					

ABSOLUTE RATIN	GS	Pulsed	$\underline{C.W}$.	<u>Units</u>
Resonator Voltage Cathode Current Reflector Voltage	(max.) (min.)		200 .023 -165 - 75	Volts Amps. max. Volts Volts

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ABSOLUTE RATINGS (cont'd.)	Pulsed	C.W.	Units
Reflector Current Heater-Cathode Voltage (peak) Dissipation (exclusive of heater power) Load VSWR		3 x 10-6 6.3 4.6 1.10	Amps. max. Volts Watts max.
TYPICAL OPERATION			
Cavity Integral Cavity Type			
Frequency	Tunable	8.5 to 10.0 kmc	
Resonator Voltage		200	Volts
Cathode Current		.020 Amps.	
Reflector Voltage			
(adjusted for maximum power output)		-75 to -160 Volts	
Reflector Current		1×10^{-7}	Amps
Reflector Mode Number (designation)		6	
Electronic Tuning (3 db)		30	Мc
Average Power Output		.025	Watts
OUTLINE DRAWING Attached			

