

BURLE Power Tubes

BURLE Type 7214

The BURLE 7214 is a forced-air-cooled UHF beam power tetrode designed for use in compact aircraft, mobile and stationary equipment. The 7214 features ceramic-metal construction and is rated to frequencies up to 1215 MHz.

The 7214 may be used in applications such as telemetry (which may require pulse amplitude, pulse position, pulse-duration, or pulse-code modulation), accelerators (which may require a unique wave-shape), or other applications requiring high RF pulse power.

General Data

Electrical

Frequency (Max.)	1215 MHz
Heater:	
Voltage	5.5 V
Current	17.3 A
Mu-Factor (G1 to G2)	17
Capacitance:	
G1-K	41 pF
G2-P	16.2 pF

Mechanical

Cooling	Forced Air
Max. Length	84.9 mm (3.34 in)
Max. Diameter	95.3 mm (3.75 in)
Weight	0.91 kg (2 lbs)
Operating Position	Any

Maximum Ratings

Anode Dissipation	1.5 kW
Grid-2 Dissipation	50 W

Anode and Grid-2 Pulsed RF Amplifier - Class B Service

Typical Operation

Anode Voltage	10 kV
Grid-2 Voltage	1 kV
Anode Current	18 A
Drive Power	11 kW
Power Output	65 kW
Frequency	1215 MHz

