

# BURLE Power Tubes

## BURLE Types S93421E & S93421EM1

The BURLE S93421E and S93421EM1 are compact, liquid-cooled, beam power tetrodes designed for broad-band distributed amplifier service as well as for use as RF power amplifiers, oscillators, regulators, or linear power amplifiers. Effective isolation of the output circuit from the input circuit is provided at the higher frequencies by the low-inductance ring termination of grid No. 2.

### General Data

#### Electrical

Frequency (Max.) .....	500	MHz
Heater:		
Voltage .....	14.0	V
Current .....	1.35	A
Mu-Factor (G1 to G2) .....	12	
Capacitance:		
G1-K .....	16.3	pF
G2-P .....	7.0	pF

#### Mechanical

Cooling .....		Liquid
Max. Length .....	69.9 mm (2.75 in)	
Max. Diameter .....	41.7 mm (1.64 in)	
Weight .....	142 g (5 oz)	
Operating Position .....		Any

### Maximum Ratings

Anode Dissipation .....	1	kW
Grid No. 2 Dissipation (S93421E) .....	8	W
Grid No. 2 Dissipation (S93421EM1) .....	12	W

### Distributed Amplifier - Class AB<sub>1</sub> Service

#### Typical Operation

Anode Voltage .....	1.8	kV
Grid-2 Voltage .....	400	V
Anode Current .....	365	mA
Power Output .....	365*	W
Frequency .....	150	MHz

\* Calculated tube output for an 11 -stage distributed amplifier providing 2000 W total useful power output in the 107 to 187 MHz frequency range.

