

# BURLE Type 4677

The BURLE 4677 is a forced-air-cooled beam power tetrode utilizing a low pressure drop radiator. It is designed for use as an RF amplifier, oscillator, regulator, distributed amplifier, or linear RF power amplifier in mobile or fixed equipment.

The terminal arrangement of the 4677 facilitates its use with tank circuits of the coaxial or strip-line type. Effective isolation of the output circuit from the input circuit is provided at the higher frequencies by the low-inductance ring terminal for the grid-2. A base-pin termination for grid-2 is also available for operation at lower frequencies.

## General Data

### Electrical

Frequency (Max.) .....	500 MHz
Heater:	
Voltage .....	13.5 V
Current .....	1.3 A
Mu-Factor (G1 to G2) .....	12
Capacitance:	
G1-K .....	16.3 pF
G2-P .....	7 pF

### Mechanical

Cooling .....	Forced Air
Max. Length .....	57.4 mm (2.26 in)
Max. Diameter . . . . .	53.1 mm (2.090 in)
Weight .....	138 g (4.9 oz)
Operating Position .....	Any

## Maximum Ratings

Anode Dissipation .....	400 W
Grid-2 Dissipation . . . . .	8 W

## RF Amplifier - Class B Telegraphy Service

### Typical Operation

Anode Voltage .....	2 kV
Grid-2 Voltage .....	0.25 kV
Anode Current .....	0.3 A
Drive Power .....	8 W
Power Output .....	300 W
Frequency .....	470 MHz

