

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

