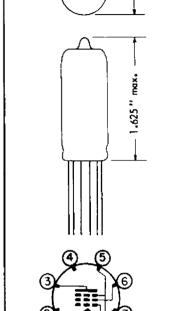


#### TECHNICAL INFORMATION

SUBMINIATURE BEAM PENTODE

# TYPE CK 6147

0.400" max.



**BOTTOM VIEW** 

6CL

## ellence in Elect

The CK6147 is a filament type R.F. power pentode of subminiature construction designed for use as an intermittent duty cycle Class A or Class C amplifier such as in portable transceiver equipment or as a frequency doubler at output frequencies as high as 400 mc. It is designed for dependable operation under conditions of shock and vibration usually found in mobile and aircraft applications. The flexible terminal leads may be soldered or welded directly to circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length.

#### MECHANICAL DATA

ENVELOPE: T-3 Glass

BASE: Subminiature Button 8-pin (0.016" tinned flexible leads.

Length: 1.50" min.)

#### TERMINAL CONNECTIONS:

Lead 1 Filament, negative Lead 5 Filament Center - Tap, Lead 2 No Connection Grid #3, (F+parallel) Lead 6 Grid #2 Lead 7 Filament, positive Lead 3 Plate Lead 4 No Connection Lead 8 Grid #1

MOUNTING POSITION: Any

#### ELECTRICAL DATA

Impact

#### DIRECT INTERELECTRODE CAPACITANCES:

	Olisine idea	ome idea
Grid to Plate	0.06 2.6	0.055 max. 2.6
Input	∠.0	Z • O
Output	2.15	3.0
RATINGS - ABSOLUTE MAXIMUM VALUES:		

Hachia Idad

Shipldad

14 ma.

#### Filament Voltage (dc) 1.25 /2.5 ± 12% volts Plate Voltage Grid #2 Voltage Grid #1 Voltage 180 volts 125 voits -100 volts Plate Dissipation 1.5 watts Grid #2 Dissipation 0.6 watts Cathode Current 60,000 feet 500 G Altitude

#### CHARACTERISTICS AND TYPICAL OPERATION - CLASS AT AMPLIFIER:

	Filament Voltage Filament Current	1,25 /2,5 125 /62,5	
	Plate Voltage		volts
	Grid #2 Voltage		volts
	Grid #1 Voltage	<b>-7.</b> 5	volts
	Plate Current	5.5	ma.
	Grid #2 Current	0.9	ma.
	Transconductance	1600	umhos
	Plate Resistance (approx.)	0.175	meg.
_		1151 ES TA 050 115	

### CHARACTERISTICS AND TYPICAL OPERATION - FREQUENCY DOUBLER TO 250 MC:

CHARACTERISTICS AND TITICAL CIERATION - I REQUERET BOODEER	10 230 IIIC .	
Filament Voltage (dc) Filament Current DC Plate Voltage DC Grid #2 Voltage Grid Bias Resistance Peak RF Grid Drive Voltage (125 Mc.)	1,25 125 120 120 0,22	volts ma. volts volts meg. volts
Plate Current Grid #2 Current		ma.
Grid ≇1 Current (approx.) Useful Power Output	325 120	μα. mw.

Tentative Data

RAYTHEON MANUFACTURING COMPANY

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