

## **6P3C-1 (closest to Cyrillic way of writing)**

**(pronounced as '6R3S-1')**

Double beam tetrode for output stages of low frequency amplifiers.

Envelope: glass.

Mass 100 g.

### **Lead diagram**

### **General characteristics:**

Filament voltage in case of series connection, Volt	6.3
Filament voltage with filament placed in parallel, Volt	12.6
Anode voltage, Volt	350
1 <sup>st</sup> grid voltage, Volt	-22
2 <sup>nd</sup> grid voltage, Volt	200
Filament (heater) current in case of series connection, A	1.05±0.15
Filament (heater) current with filament placed in parallel, A	2.1±0.3
Anode current of each tetrode, mA	47.5±17.5
2 <sup>nd</sup> grid current ( $U_{C1}=0V$ ), mA	no more than 60
Gain coefficient of 1 <sup>st</sup> grid relatively to 2 <sup>nd</sup> grid	10
Reverse 1 <sup>st</sup> grid current, mA	no more than 0,5
Vibration noise (at $R_A=2\text{ kOhm}$ ), mV	no more than 800
Inter electrode capacitance, pF:	
input	13±3

output	6±2
transfer	no more than 0,3
Operation time, h	≥1000

#### Limited operating values:

Filament voltage in case of series connection, V	5,7 to 6,8
Filament voltage with filament placed in parallel, V	11.4 to 13.8
Anode voltage, V	600
2 <sup>nd</sup> grid voltage, V	300
1 <sup>st</sup> grid voltage, V	-175
Cathode – heater voltage, V	100
Cathode current (average/peak), mA	250/1500
Each anode dissipation, W	20
1 <sup>st</sup> grid dissipation, W	1
2 <sup>nd</sup> grid dissipation, W	7

#### Operating environmental conditions:

Acceleration of vibration loads, g	2.5
at the frequencies, Hz	5-200
Acceleration of multiple impacts, g	12
Ambient temperature, °C	–60 to +100
Relative humidity at up to 40°C, %	98
Tubes operating temperature, °C	250
Cathode heating time, s	90

#### CURVES

Plate curves

Plate-grid curves