TYPE DESIGNATION REGISTRATION

Manufacturer: Western Electric Company
Manufacturer's Type No.: 1391XK
JETEC Type No.: 1B31

The 1B31 is a hydrogen-argon filled spark gap modulator tube for use in pulse modulator applications. Two or more tubes may be used in series as a pulse triggered switch to actuate release of energy previously stored in a pulse shaping network.

Ratings

<table>
<thead>
<tr>
<th></th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Voltage per Gap*</td>
<td>---</td>
<td>4.6 kilovolts</td>
</tr>
<tr>
<td>Peak Current*</td>
<td>30</td>
<td>300 amperes</td>
</tr>
<tr>
<td>Pulse Repetition Rate*</td>
<td>200</td>
<td>1600 pulses/sec.</td>
</tr>
<tr>
<td>Pulse Duration</td>
<td>.25</td>
<td>5.0 microseconds</td>
</tr>
</tbody>
</table>

Mechanical Data

Mounting Position: Any
Dimensions: See attached outline.

* Maximum Ratings do not apply simultaneously.

NOTE: This tube is obsolete and manufacturing facilities are no longer available.

from RMA release # 688, Sept. 10, 1948
NOTE

FROM A THRU TO THE CENTER OF THE END OF THE
THE CONTACT SURFACE OF THE TERMINALS BY MORE THAN 1
THE BULB SHALL NOT BE ECCENTRIC BY MORE THAN 3 AND

CATHODE

ANODE

WESTERN ELECTRIC
MADE IN USA

1B3

IN 30"

AREA

CONTACT

MIN 32

MAX 32

MIN 11

MAX 11

MIN 32

MAX 32

6.18

4.18

2.4 MAX.