

JETEC TYPE DESIGNATION REGISTRATION FORM

DUAL TR TUBE

Manufacturer's Designation: BL-616 April 13, 1957

JETEC Designation: 6685

Manufacturer: Bomac Laboratories, Inc.

GENERAL CHARACTERISTICS

The 6685 is a broad-band dual TR tube designed to operate with suitable short-slot hybrid junctions to provide a balanced duplexer using RG 96/U size waveguide. It is an integral cavity type with fixed tuned gaps. Its operational band is from 33, 500 to 36, 250 megacycles.

ELECTRICAL DATA - TYPICAL VALUES

Operational Band	
VSWR 1.3 maximum	33, 500 to 36, 250 Mc/s
Ignitor Ignition Time (max.)	5.0 max.
Ignitor Voltage Drop at $I_i=100$ uAdc	350-475 Volts
Spike Leakage Energy (max.)	0.1 ergs
F=34, 500 Mc; $p_o=20$ kw; $t_{p1}=0.50$ us;	
$t_{p2}=0.25$ us; $p_{rr}=1000$ pps; $I_i=100$ uAdc	
Flat Leakage Power (max.)	20 mw
(See Spike Leakage for test conditions)	
Duplexer Loss (max.) at $I_i=100$ uAdc	
from 33, 500 to 36, 250 megacycles	1.4 db
from 34, 000 to 35, 500 megacycles	1.2 db
Isolation (min.) from 33, 500 to 36, 250 Mc/s	
	15 db
Recovery Time (max.) at 20 kw peak	
3 db down	5 usec

MECHANICAL DATA - GENERAL

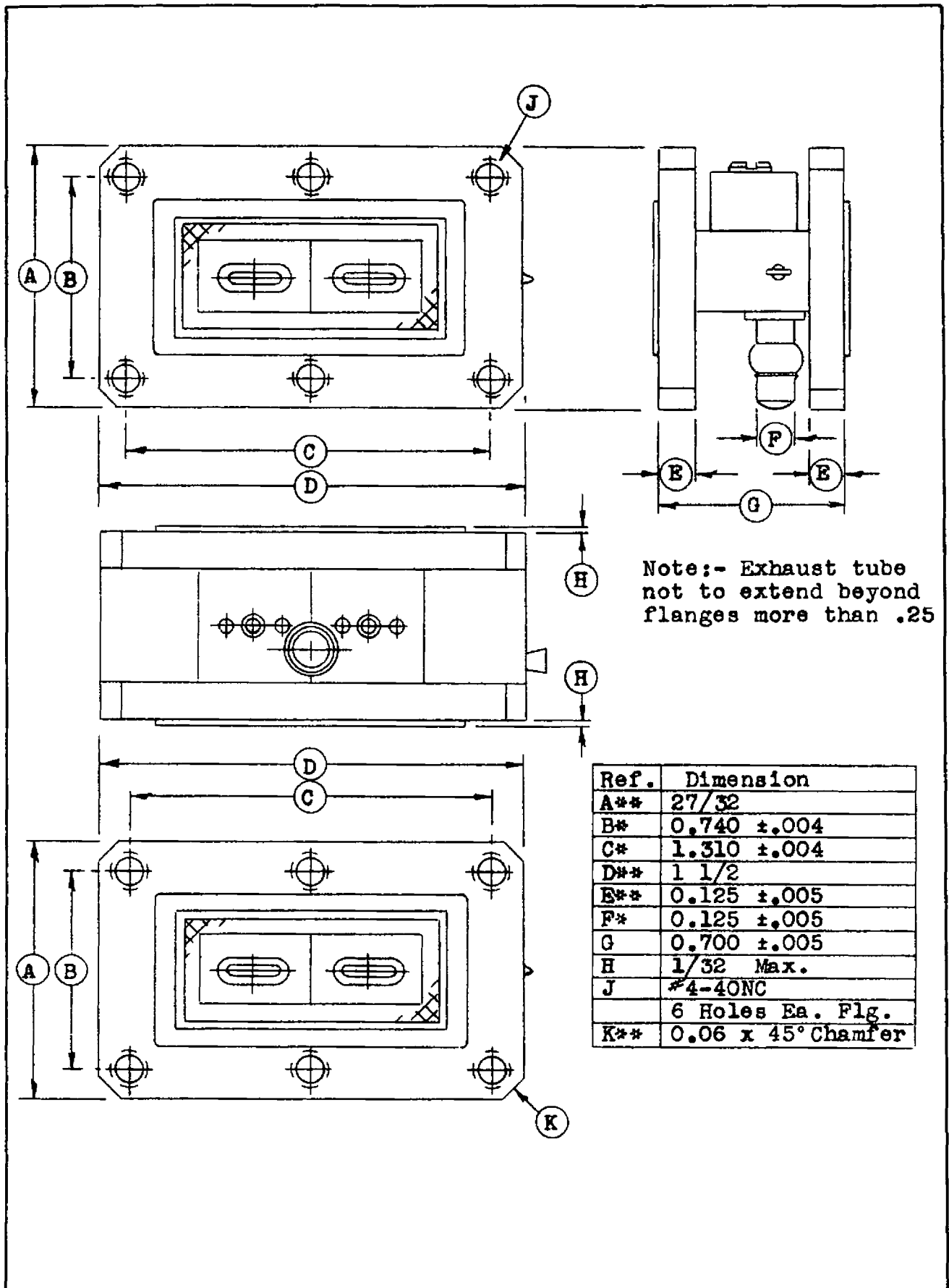
Mounting Position	Any
Number of Electrodes	One
Weight, approximately	1.5 ozs

ABSOLUTE MAXIMUM RATINGS

Transmitter Peak Power	20 kw
Transmitter Average Power	10 W
Ignitor Current	200 uAdc

OUTLINE DRAWING

As per attached drawing dated 10-28-55



SPECIFICATION SHEET

Outline

6685/BL-616

BOMAC LABORATORIES INC.
SALEM ROAD
BEVERLY, MASSACHUSETTS

10-28-55 clr