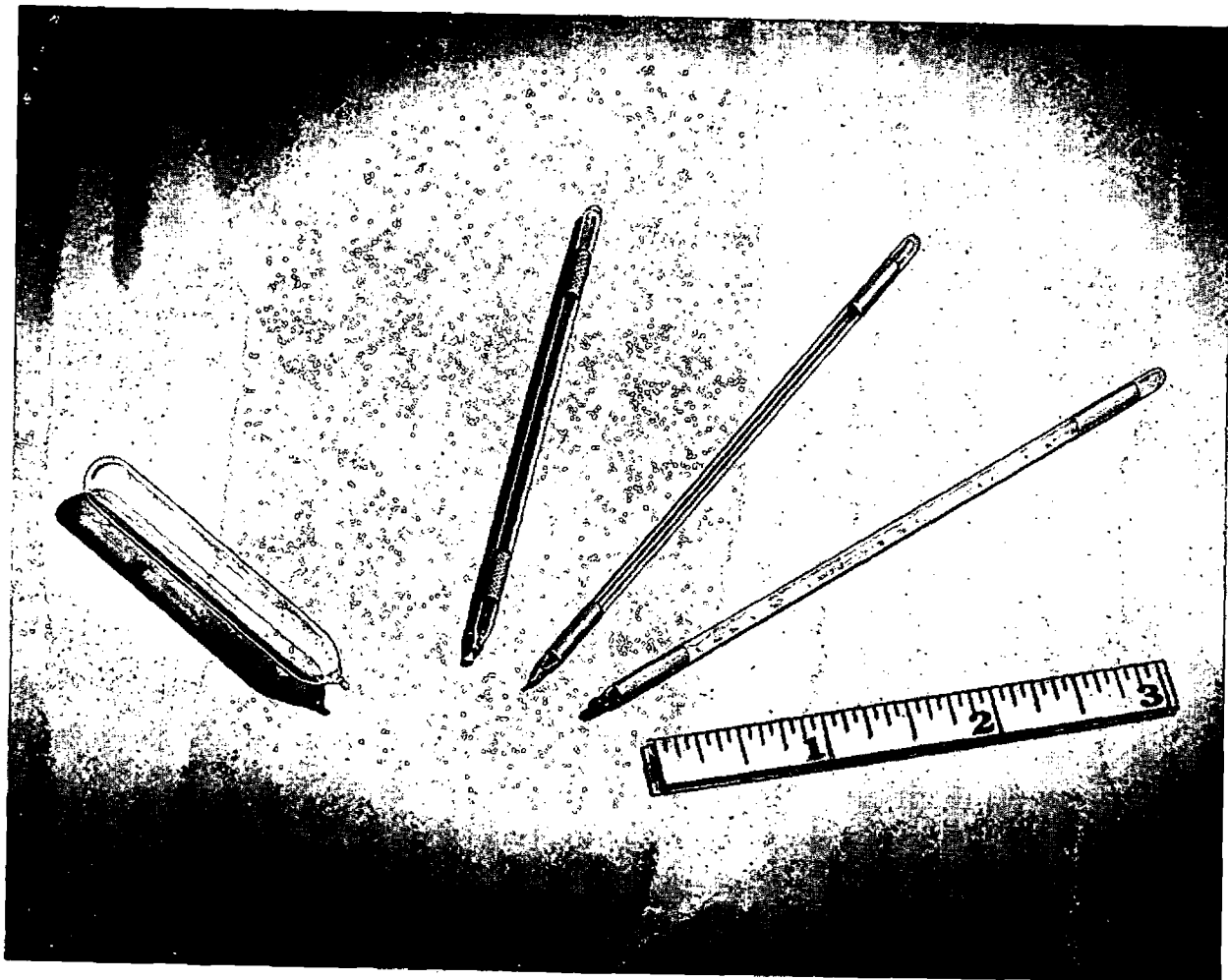




GAS-DISCHARGE DEVICE

These gas-discharge devices are for use in polarization or branching-type duplexers in radar systems. In such service they perform the same function as A-TR and Pre-TR tubes and can be used to replace these switching tubes where higher

power levels are required. In operation the gas-filled envelope ionizes to form a highly conductive gas column when high radio-frequency power is applied during the transmission period, and deionizes when the power is removed.

APPLICATION

GL-6619—Groups of ten to twenty in polarization twist duplexers, 2700 to 2900 megacycles.

GL-6620—Groups of two in branching-type duplexers, 3400 to 3600 megacycles.

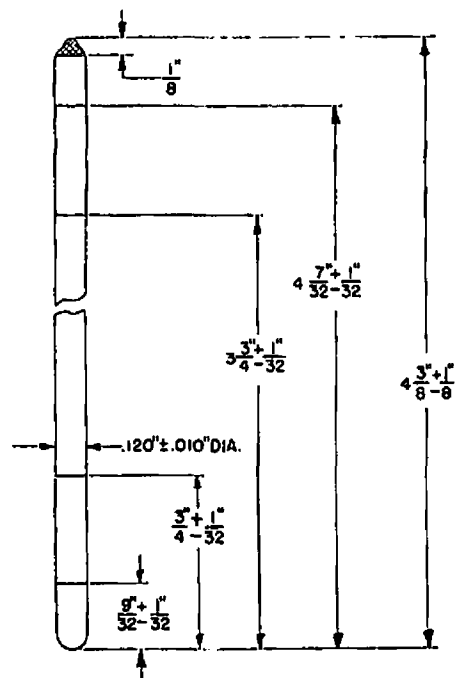
GL-6621—Groups of ten to twenty in polarization twist duplexers, 2700 to 2900 megacycles.

GENERAL  ELECTRIC

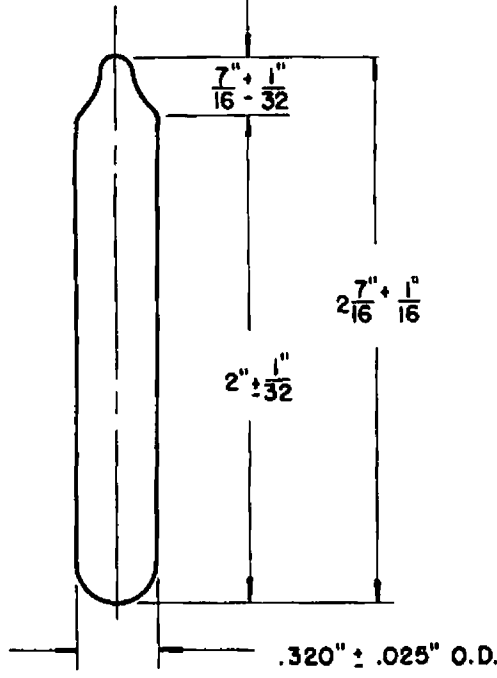
TECHNICAL INFORMATION

GENERAL

Tube Type Number	GL-6619	GL-6620	GL-6621	
Electrical				
Firing Power	250	250	250	Min Kilowatts
	Tube axis 85 degrees from direction of electric field vector.			
Recovery Time (single tube)	25	40	50	Max Microseconds
	Peak power = 50 kw; pulse repetition rate = 1000 pps; pulse duration = 1.0 μ sec; magnetron frequency = 2800 $\pm$ 20 mc; probing signal fre- quency = 2900 $\pm$ 30 mc.	Peak power = 50 kw; pulse repetition rate = 1000 pps; pulse duration = 1.0 μ sec; magnetron frequency = 3500 $\pm$ 20 mc; probing signal fre- quency = 3570 $\pm$ 30 mc.	Peak power = 50 kw; pulse repetition rate = 1000 pps; pulse duration = 1.0 μ sec; magnetron frequency = 2800 $\pm$ 20 mc; probing signal fre- quency = 2900 $\pm$ 30 mc.	
	Tube axis is parallel to incident electric field vector.			
Mechanical				
Mounting Position	Any	Any	Any	
Ambient Temperature Range (non-operating)	-40 to +100	-40 to +100	-40 to +100	C
Net weight, approximate	3	3	2	Ounces
Maximum Ratings				
Transmitter Peak Power	2.5	2	5	Megawatts
Frequency Range	2700 to 2900	3400 to 3600	2700 to 2900	Megacycles per Second



K-69087-186A67
OUTLINE
GL-6619, GL-6621
1-24-55



K-69087-186A78
OUTLINE
GL-6620
1-24-55