Release No. 976

May 25, 1951

Type 6089
Reference Cavity

The 6089 is a fixed frequency, transmission type, vacuum sealed, reference cavity for use at 9280 megacycles as a frequency determining reference.

Electrical Data - General

Resonant Frequency	9280	Mc
Loaded Q	2100	
Insertion Loss at Resonant Frequency	5	db

Mechanical Data - General

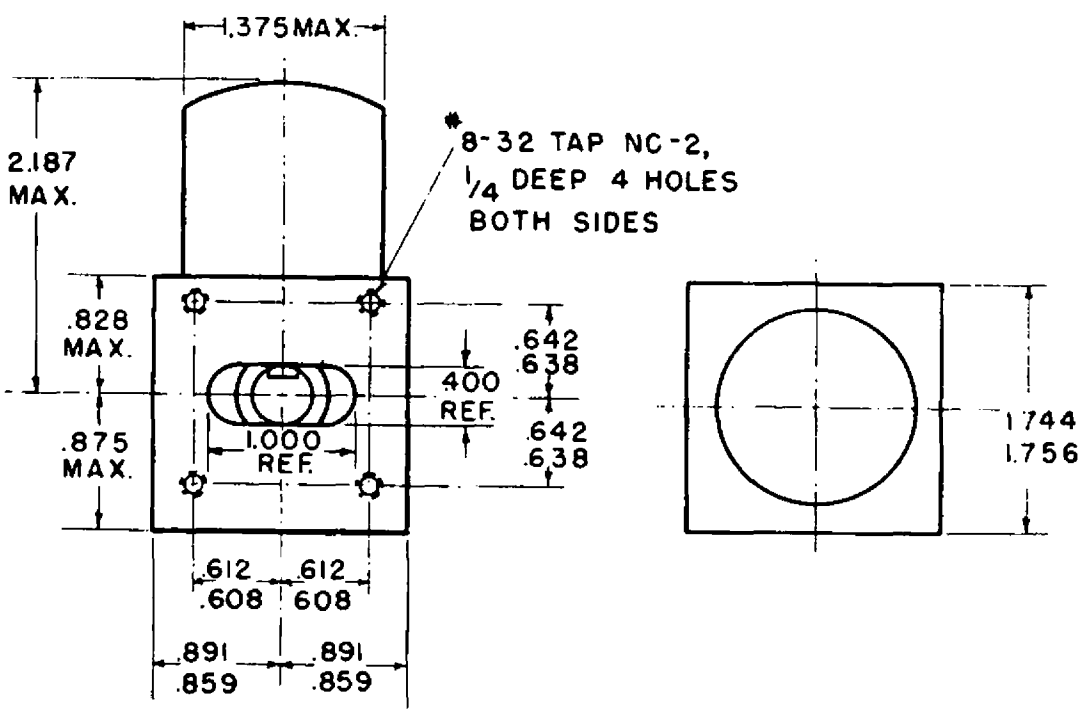
Can be Pressurized		
Ambient Temperature Range	-40 to +100	°C
Net Weight (approximately)	3/4	lb.
Mounting Position	Any	
Outline Drawing Number	60159	

Maximum Ratings

Incident Peak Power	5	Kw

Electrical and Mechanical Data with Limits

Change in Resonant Frequency with Vibration 10 g.	+ or - .1	Mc max.
Change in Resonant Frequency with Pressure from atmospheric to 125 mm of mercury or to 3 atmospheres.	+ or - .15	Mc max.
Change in Resonant Frequency with Temperature from Room Temperature to -40°C or + 100°C.	+ or - .3	Mc max.
Change in Resonant Frequency due to mechanical creep.	+ or - .3	Mc max.



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