EIMAC
Division of Varian
SAN CARLOS
CALIFORNIA

4CN15A

CERAMIC

POWER TETRODE

The Eimac 4CN15A is a coolerless version of the 4CX300A tetrode intended for use in low duty or pulse service. It is electrically identical to the 4CX300A with the exception of plate dissipation which is rated at 15 watts in air. Where other cooling means are used, such as liquid immersion, plate dissipation is limited only by the maximum allowable anode and seal temperatures.

GENERAL CHARACTERISTICS

ELECTRICAL

		Min.	Nom.	Max.	
Cathode:	Oxide-Coated, Unipotential				
	Heating Time	30	60		seconds
	Cathode-to-Heater Potential			±150	volts
Heater:	Voltage		6.0		volts
	Current	2.6		3.1	amperes
Amplification Factor (Grid to Screen)		4.0		5.6	
Transconductance (I_b = 200 ma)			12,000		umhos
Direct Interelectrode Capacitances, Grounded Cathode:					
	Input	25		33	uuf
	Output	3.5		4.5	uuf
	Feedback			0.06	uuf
Frequency for Maximum Ratings				500	Mc

MECHANICAL

Base	Special, breechblock terminal surfaces
Recommended Socket	Eimac SK-700 series
Operating Position	Any
Maximum Operating Temperatures:	
Ceramic-to-Metal Seals	250° C
Anode Core	250° C
Cooling	Convection or conduction
Maximum Over-all Dimensions:	
Height	2.5 inches
Diameter	inches
Net Weight	2.5 ounces
Shipping Weight	1 pound

MAXIMUM CW RATINGS

	Class-C FM or Teleg	Class-C Plate Mod	Class-AB		
DC PLATE VOLTAGE	2000	1500	2500*	MAX.	VOLTS
DC PLATE CURRENT	250	200	250	MAX.	MA
DC SCREEN VOLTAGE	300	300	400	MAX.	VOLTS
DC GRID VOLTAGE	-250	-250	---	MAX.	VOLTS
PLATE DISSIPATION	15**	10**	15**	MAX.	WATTS
SCREEN DISSIPATION	12	12	12	MAX.	WATTS
GRID DISSIPATION	2	2	2	MAX.	WATTS

*Up to 250 Mc.

**Rating in air - may be increased with adequate cooling.

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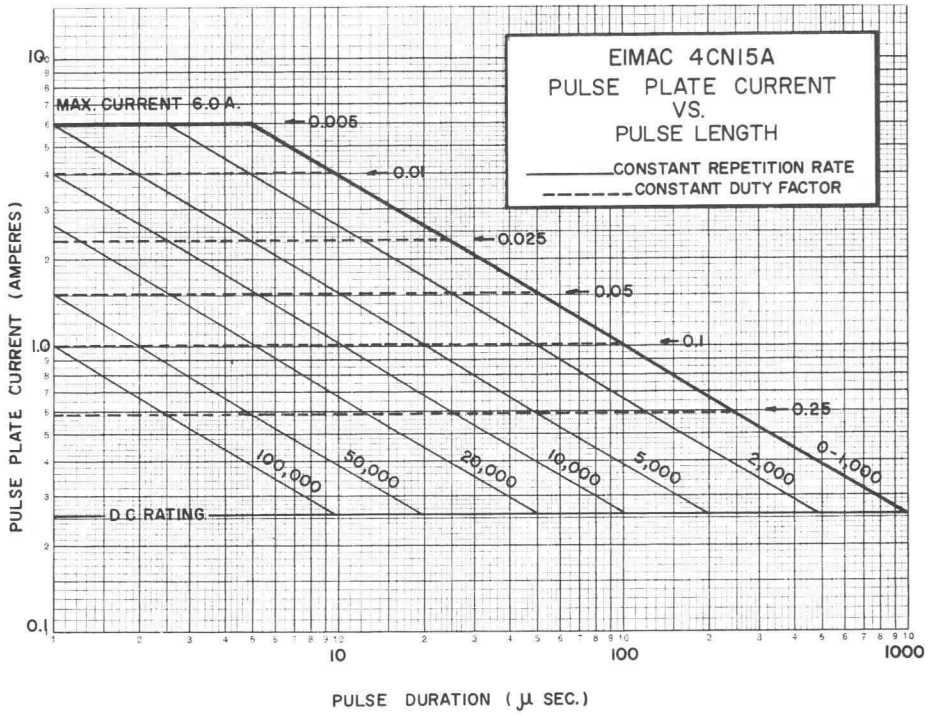
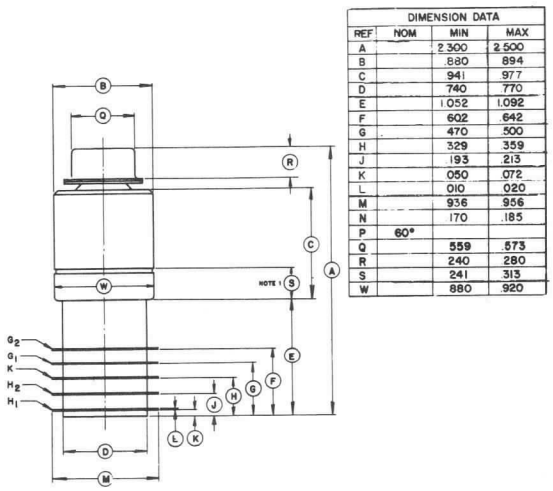
MAXIMUM PULSE RATINGS

	Class-C Grid Pulsed	Class-C Plate Pulsed	Pulse Modulator		
DC PLATE VOLTAGE	2500	7000 (pulsed)	4000	MAX.	VOLTS
PEAK PLATE CURRENT (DC Component)	6.0*	6.0*	6.0*	MAX.	AMPS
DC GRID VOLTAGE	-300	-500	-300	MAX.	VOLTS
DC SCREEN VOLTAGE	750	1500 (pulsed)	750	MAX.	VOLTS
PLATE DISSIPATION (AVG)**	15	15	15	MAX.	WATTS
SCREEN DISSIPATION (AVG)	12	12	12	MAX.	WATTS
GRID DISSIPATION (AVG)	2	2	2	MAX.	WATTS

*According to table below.

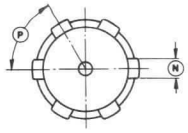
**Depends on cooling method.





DIMENSION DATA			
REF	NOM	MIN	MAX
A		2.300	2.500
B		.880	.894
C		.941	.977
D		.740	.770
E		1.052	1.092
F		.602	.642
G		.470	.500
H		.329	.359
J		.193	.213
K		.050	.072
L		.010	.020
M		.936	.956
N		.170	.185
P	60°		
Q		.559	.573
R		.240	.280
S		.241	.313
W		.880	.920

NOTE: These dimensions reflect standard manufacturing tolerances. Where they are to be made the basis of purchase specifications, they should first be checked with the factory.



NOTES:
1. DO NOT CONTACT THIS SURFACE.
2. DIMENSIONS IN INCHES.