MILITARY SPECIFICATION SHEET

ELECTRON TUBE, RECEIVING

TYPE 6B4G 1/

The complete requirements for procuring the electron tube described herein shall consist of this document and the latest issue of Specification MIL-E-1.

This specification is mandatory for use by all Departments and Agencies of the Department of Defense.

DESCRIPTION: Triode, power amplifier

Outline	---	16-3 (EIA)
Base	---	B8-11 (phenolic)
Envelope	---	ST16
Cathode	---	Coated filament

Base connections:

Pin No.	---	1	2	3	4	5	6	7	8
Element	---	nc	f	a	nc	g	nc	f	nc

ABSOLUTE-MAXIMUM RATINGS:

Parameter:	Ef	Eb	Ec	Pp	Ik	Alt
Unit:	V	Vdc	Vdc	W	mAdc	ft
Maximum:	6.9	360	---	15	100	10,000
Minimum:	5.7	---	---	---	---	---
TEST CONDITIONS:	6.3 Vac	300	-62	---	---	---

GENERAL:

Qualification - Not required

1/ See note 1

© denotes changes

METHOD	REQUIREMENT OR TEST	CONDITIONS	AQL (PERCENT DEFECTIVE)	INSPECTION LEVEL OR CODE	SYMBOL	LIMITS MIN	LIMITS MAX	UNIT
	Qualification inspection							
1216	Base material insulating quality		---	---	---	---	---	---
	Quality conformance inspection, part 1							
1266	Total grid current	See note 2	0.65	II	Ic	0	-3.0	μAdc
1256	Electrode current (anode)		0.65	II	Ib	22.5	57.5	mAdc
1341	Power output	Esig = 40 Vac; Rp = 1,100 ohms (see note 2)	0.65	II	Po	4.3	---	W
1246	Audio frequency noise	Esig = 700 mVac; Rp = 2,000 ohms; Ef = 6.3 Vdc	0.65	II	FB	---	17	vu
1231	Emission	Eb = Ec = 30 Vdc	0.65	II	Is	140	---	mAdc
(C) 1201	Short and discontinuity detection		0.4	II	---	---	---	---
	Quality conformance inspection, part 2							
1031	Low-frequency vibration	Ec = 70 Vdc; Rp = 2,000 ohms	---	---	Ep	---	500	mVac
1301	Filament current		---	---	If	0.90	1.10	A
1306	Transconductance		---	---	Sm	3,200	4,800	μmhos
1316	Amplification factor		---	---	Mu	3.7	4.3	---
(C) 1211	Insulation of electrodes		4.0	S3	---	---	---	---
(C) 1101	Secureness of base, cap, or insert		---	---	---	---	---	---
(C) 1111	Base pin solder depth		---	---	---	---	---	---
(C) 1105	Permanence of marking		---	---	---	---	---	---
	Quality conformance inspection, part 3							
---	Life-test provisions	Group A	---	---	---	---	---	---
---	Life-test end point (500 hours)	Power output	---	---	Po	2.75	---	W

NOTES:

1. Tube types 2A3 and 6A3 are hereby deleted from this tube specification sheet.
2. This test to be performed at the conclusion of the holding period.

Custodians:
Army - EL
Navy - EC
Air Force - 80

Review activities:
Army - EL.
Navy -
Air Force - 11, 80
DSA - ES

User activities:
Army - WC
Navy - AS, OS, MC, CG, SH
Air Force - 19

Preparing activity: Navy - EC

Agent: DSA - ES

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