TUBES FOR UHF APPLICATIONS — Cont'd

Type	Description
OTHER UHF TYPES (Cont'd)	
9002	Medium-Mu Triode. 7-pin miniature type with a heater-cathode. Electrically similar to the 955. For frequencies up to 500 Mc.
9003	Remote-Cutoff Pentode. 7-pin miniature type with a heater-cathode. Electrically similar to the 956.
9004	UHF Diode. Acorn type with a heater-cathode. For use as a rectifier, detector, or measuring device. Resonant frequency about 850 Mc.
9005	UHF Diode. Acorn type with a heater-cathode. For use as a rectifier, detector, or measuring device. Resonant frequency about 1500 Mc.
9006	UHF Diode. 7-pin miniature type with a heater-cathode. Resonant frequency about 700 Mc. For uhf service as a rectifier, detector, or measuring device.

THYRATRONS

Type	Description
TRIODES (Gas Types)	
884	Negative-control, heater-cathode type. Small shell, octal 6-pin base.
885	Negative-control, heater-cathode type. Small 5-pin base. For renewal use only.
TETRODES (Gas Types)	
2D21	Miniature heater-cathode type. Can be operated in a high-sensitivity circuit directly from a vacuum phototube. Miniature button 7-pin base.
2D21-W	Like 2D21 but intended to meet indicated military specification.
5D2-A	Metal, negative-control, heater-cathode type. Octal 8-pin base.
2050	Negative-control, heater-cathode type. Can be operated directly from a vacuum phototube. Octal 8-pin base.
5696	Miniature 7-pin type for relay applications such as counter-circuits where low-heater-current drain and short deionization time are important considerations.
5727	Miniature heater-cathode type, 7-pin base. For use in relay, grid-controlled rectifier and pulse-modulator circuits.
5727/2D21-W	Designed to meet the indicated military specification.
6012	Negative-control, heater-cathode type. For grid-controlled rectifier and relay applications, particularly those involving motor-control and low-power inverter service.

For key to terminal connections see page 30.

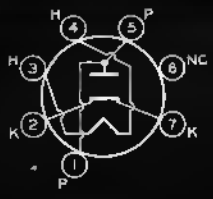
Note: Long part of bulb is top.

9002

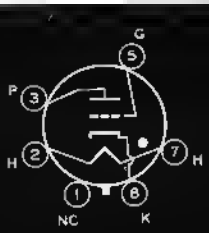
9003

See Note
9004

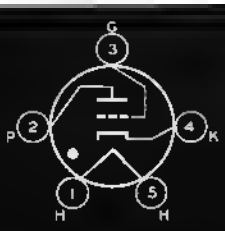
See Note
9005



9006



884



885

Cathode Volts	Cathode Amp.	Maximum Dimensions Inches Length	Maximum Dimensions Inches Diam.	Class of Service	Maximum Ratings: DC Plate Volts	Maximum Ratings: DC Current Plate Ma.	Maximum Ratings: Plate Dissipation Watts	Typical Operation: Plate Supply Volts	Typical Operation: Grid-No. 1 Volts(v) or Cathode Resistance Ohms	Typical Operation: Grid-No. 2 Supply Volts	Typical Operation: Grid-No. 2 Current Ma.	Typical Operation: Plate Current Ma.	Typical Operation: AC Plate Resistance Ohms	Typical Operation: Transconductance Micromhos	Typical Operation: Amplification Factor	Typical Operation: Power Output Watts	Type
OTHER UHF TYPES (Cont'd)																	
6.3	0.15	1¾	¾	Class A_1 Amplifier	250	—	1.6	90 250	−2.5v −7.0v	— —	— —	2.5 6.3	14700 11400	1700 2200	25 25	— —	**9002**
6.3	0.15	1¾	¾	Class A_1 Amplifier	250	—	1.7	250	−3v	100	2.7	6.7	0.7§	1800	—	—	**9003**
				Mixer				250	−10v	100	Conversion Transcond., 600 μmhos Osc. Peak Volts, 9						
6.3	0.15	1⅜	15/32	Detector Rectifier	Max. AC Plate Volts, 117 Max. DC Output Ma., 5						Max. DC Heater-Cathode Volts, ±90 Resonant Frequency (Approx.), 850 Mc						**9004**
3.6	0.165	1⅜	15/32	Detector Rectifier	Max. AC Plate Volts, 117 Max. DC Output Ma., 1						Max. DC Heater-Cathode Volts, −50 Resonant Frequency (Approx.), 1500 Mc						**9005**
6.3	0.15	1¾	¾	Detector Rectifier	Max. AC Plate Volts, 270 Max. Peak Inverse Plate Volts, 750						Max. Peak Plate Ma., 15 Max. DC Output Ma., 5						**9006**

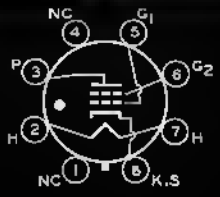
THYRATRONS

Applications	Cathode Volts	Cathode Amp.	Max. Dimensions Inches Length	Max. Dimensions Inches Diam.	Approx. Tube Drop Volts	Maximum Ratings: Temperature Range Condensed Mercury °C	Maximum Ratings: Temperature Range Ambient °C	Maximum Ratings: Peak Forward Anode Volts	Maximum Ratings: Peak Inverse Anode Volts	Maximum Ratings: Peak Cathode Amperes	Maximum Ratings: Average Cathode Amperes	Maximum Ratings: Fault Amperes	Type
For complete listing of Thyratrons, see Power and Gas Tubes Booklet, PG-101-D.													**TRIODES (Gas Types)**
Relaxation oscillators	6.3	0.6	4⅛	1 9/16	14	—	−75 to +90	350	—	0.3	0.075	—	**884**
					Max. Ratings for Relaxation Osc.			Peak Anode Volts, 300; Peak Cathode Amp., 0.3					
Relaxation oscillators	2.5	1.5	4 3/16	1 9/16	14	—	−75 to +90	350	—	0.3	0.075	—	**885**
					Max. Ratings for Relaxation Osc.			Peak Anode Volts, 300; Peak Cathode Amp., 0.3					
													TETRODES (Gas Types)
High-sensitivity relay control circuits	6.3	0.6	2⅛	¾	8	—	−75 to +90	650	1300	0.5	0.1	10	**2D21**
					Typical Operating Conditions for Relay Service: Anode Volts, 400				Grid-No. 1 Circuit Res., 1 megohm				
	6.3	0.6	2⅛	¾	For data refer to MIL-E-1/756B specification▲								**2D21-W**
	6.3	0.6	2⅝	1 5/16	8	—	−55 to +90	650	1300	1.0	0.1	10	**502-A**
	6.3	0.6	4⅛	1 9/16	8	—	−75 to +90	650	1300	1.0	0.1	10	**2050**
							Grid-No. 1 Circuit Resistance, 10 megohms max.						
	6.3	0.15	1¾	¾	10	—	−55 to +90	500	500	0.1	0.025	2	**5696**
					Typical Operating Conditions for Relay Service: AC Anode Voltage (RMS), 117 Grid-No. 1 Bias Volts (RMS), 5			Peak Grid-No. 1 Signal Volts, 5 Grid-No. 1 Circuit Resistance, 0.1 megohm					
High-sensitivity relay control circuits	6.3	0.6	2⅛	¾	8	—	−75 to +90	650	1300	0.5	0.1	10	**5727**
	6.3	0.6	2⅛	¾	For data refer to MIL-E-1/83B specification▲								**5727/2D21-W**
	6.3	2.6	4¼	1 23/32	10	—	−75 to +90	650	1300	5	0.5	20	**6012**
							Grid-No. 1 Circuit Resistance, 2 megohms max.						

All thyratron ratings are for continuous service. § Megohms.

▲ A copy of this specification may be obtained from the Director of the Armed Services Electro-Standards Agency (ASESA) at Fort Monmouth, New Jersey.

2D21 2D21-W
5696 5727 5727/2D21-W



502-A

2050

6012