September 15, 1959

TELEVISION PICTURE TUBE TYPE 21DKP4A

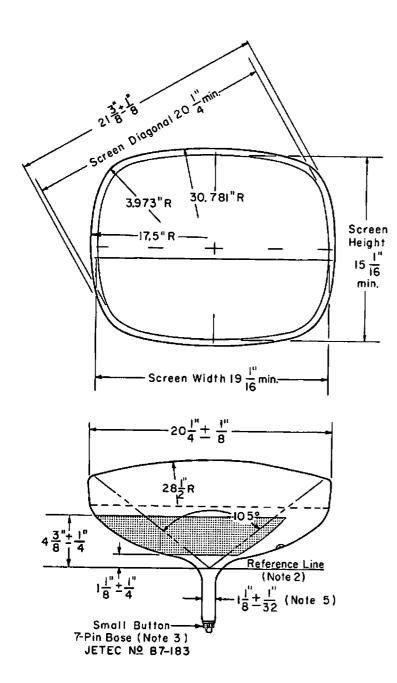
110° Magnetic Deflection	Light W	eight Bulb E	xternal Con	iductive C	oating
Rectangular Glass	300 Ma, Controlle	ed Warm-up Heater	Spherical Faceplate		
Aluminized			•	No lor	Trap
Neutral Gray Glass		19	9-1/16'' × 1		
ELECTRICAL:					
Cathode	Contad Uninesessia	MAXIMUM RATINGS:			
Heater:	. Coured Comportantia	bosign semer ratees	_		
Voltage (ac or dc)	. 6.3 Volt	Anode Voltage		8000 ≜ max.	Volts
Current		Ond 4 Yorldge.		1000	Wale.
Heater Warm-up Time igoplus	· 18 Second	1 0511176 74:06		1000 max. 500 max.	Volts
Direct Interelectrode Capacitances:	15 5000110	Grid 2 Voltage		500 max.	_
Grid I to all other Electrodes	. 6 µµ		• • • • • • •	Joo max.	10113
Cathode to all other Electrodes				O max,	Volts
External Conductive Coating to Anode:	141	Positive Peak Value		2 max.	
Maximum	. 2500 дда			140 max.	
Minimum	. 1700 ju			200 max.	Volts
Screen:	• • • • • • • • • • • • • • • • • • • •	Peak Heater-Cathode Voltage:			
Phosphor		Heater Negative with respect to Co	athode#	180 max.	Volts
Fluorescence		Heater Positive with respect to Co	athode	180 max.	Volts
Persistence					
Focusing Method Low		TYPICAL OPERATING CONDITION	\$:		
Deflection Method ,	•	• • • • • • • • • • • • • • • • • • • •		16000	
Horizontal Angle				0 to 400	
Vertical Angle			• •	300	Volts
Diagonal Angle					
No Ion Trap	. No Magnet Kequired	Raster Cutoff , ,	• •	-35 to -72	Volts
MECHANICAL:		LIMITING CIRCUIT VALUES:			
Mounting Position	Any	Grid 4 Resistance to Voltage Sour	Grid 4 Resistance to Voltage Sourcem 10000 min. Ohms		
Screen Dimensions: Minimum		Grid 2 Resistance to Valtage Source ■, 10000 min. Ohms		Qhm s	
Height,,	15-1/16*	Grid Circuit Resistance	1,	5 max. Me	gohms
Width	19-1/16'				
Diagonal	20-1/4'	,	Operation with anode voltage or anode to grid I voltage less than		
Area	262 sq. Inches				
Faceplate	Spherical	Protective resistance in the orid 4	and arid 2 cir	rcuits is adv	isable
Transmission	Neutral Gray	to prevent damage to the tube. If applicable, one resistor common			
Bulb Dimensions: Bulb No.	76%	to both circuits may be used.	•		
Height	J171G1 or Equiv 16-3/8*' ± 1/8''	·	1a 1		. L. L
Width	20-1/4" ± 1/8"	J .	•	•	•
Diagonal	21-3/8" ± 1/8"	•			•
Overall Length		in excess of 16 kilovolts.	g condition	2 11140146 40	
Neck Length	5-7/16" ± 1/8"			10	•.
Anode Terminal Reces		★ During 45 second warmup period the			
	(JETEC JI-21)	Note: With a minimum neck length			
Base	Small Button 7-Pin		e than 2-1/8"	trom the yok	e ref-
	(JETEC 87-183)	erence line.			
Basing,	848				
Weight (approx.)	20 Pounds				
# Hoster Wasser - Time to the control					
Heater Warm-up Time is defined as the transfer of the tra	e time required for				
the voltage across the heater to reach	80% of its rated				
value after applying 4 times rated h	eater voltage to a				

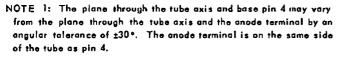
Cathode Ray Tube Section

circuit consisting of the tube heater in series with a resistance equal to 3 times rated heater voltage divided by

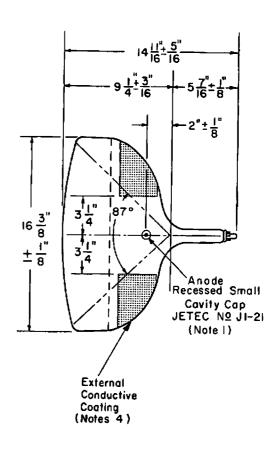
rated heater current.

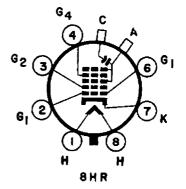
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NOTE 2: With the tube neck inserted through the flared end of Reference Line Gauge JETEC No. 126 and with the tube seated in the gauge, the reference line is determined by the intersection of the plane face of the flored end of the gauge with the tube funnal.





NOTE 3: The socket should not be mounted rigidly, but should be allowed to move freely and have flexible leads. The associated wiring should not impress lateral strains on the base pins. The bottom circumference of the base wafer will lie within a circle concentric with the bulb axis and having a diameter of 1-3/4".

CE-C1414

NOTE 4: External conductive coating forms supplementary filter capacitor and must be grounded.

NOTE 5: Neck diameter may be a maximum of 1.168" at the splice.