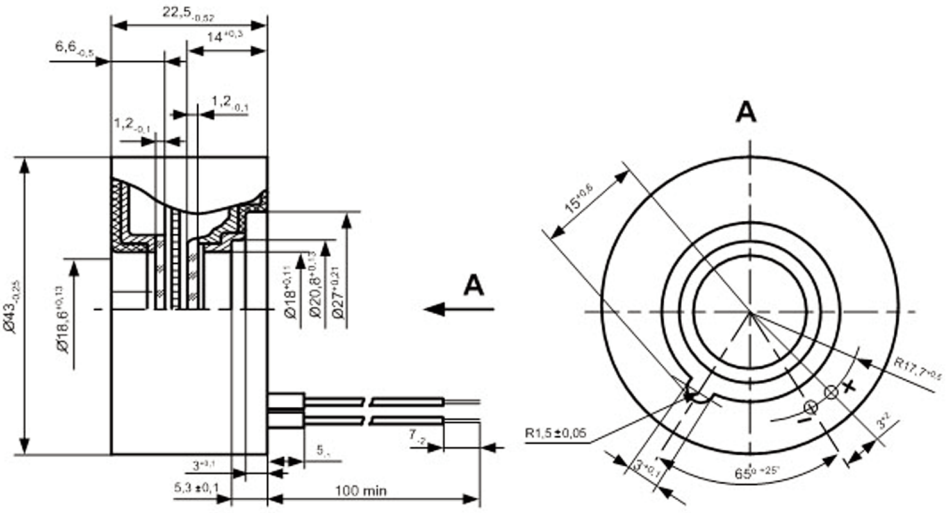
IMAGE INTENSIFIER TUBES - 4322 SERIES

Small size Generation 2+/3 image intensifier tubes with direct image transfer. The tube has a microchannel plate, a photocathode made of multialkali metal (Gen. 2+) or GaAs (Gen.3), a yellow-green color screen, a built-in wrap-around power supply, and flat surface glass input and output windows. This type of tubes complies with all relevant military standards and specifications.



Compact non inverting Tube
compatible with NVS 7 and other devices

Tube Specifications				
Model	NC064322	NCXT4322	N3064322	N3XT4322
Grade	HD	XT	HD	XT
Photocathode operating diameter, mm	18	18	17.5	17.5
Photocathode material	S-25	S-25	GaAs	GaAs
Resolution, lp/mm	51-54	54-64	45-54	54-64
Photocathode sensitivity, μA/lm	500-600	600-750	1200-2100	1600-2100
Light gain, minimum	35,000	35,000	35,000	35,000
Image magnification	1	1	1	1
Dark background brightness, max, cd/m2	$1.5x10^{-3}$	$1.5x10^{-3}$	$5x10^{-3}$	$5x10^{-3}$
Signal-to-noise ratio	18	18	20	20
Current consumption, max, mA	20	20	25	25
Voltage, V	2.8 ± 0.8	2.8 ± 0.8	2.8 ± 0.8	2.8 ± 0.8
Weight, g	55	55	50	50
Mean time before failure, hours	10,000	10,000	10,000	10,000

Environmental resistance	
Sinusoidal vibration (vibration strength):	
Frequency range, Hz	1-500
Acceleration, m/s2 (g)	50 (5)
Mechanical shocks:	
Shock, m/s2 (g)	5,000 (500)
Operating temperature range, °C	-50 ... +55

Modulation transfer function		
Frequency, lp/mm	HD grate	XT grade
2.5	0.87	0.88
7.5	0.67	0.72
15.0	0.42	0.50

Field of view cleanness

Zone Number	Circular zone Dimensions, mm	Neglected	Diameter, mm	Quantity	Allowed total area of defects, mm^2
1	0 - 9.0	0.06	0.12	1	0.10
2	9.0 - 14.5	0.08	0.18	1	0.20
3	14.5 - 18.0	0.10	0.20	2	0.35

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