

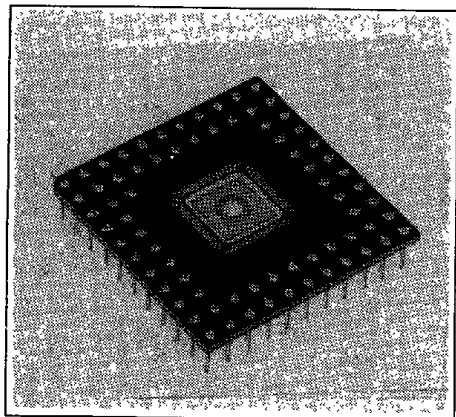
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SIEMENS**KOM 0622059****64-ELEMENT SILICON CIRCULAR ARRAY
VERY LOW DARK CURRENT***T-41-45***DESCRIPTION**

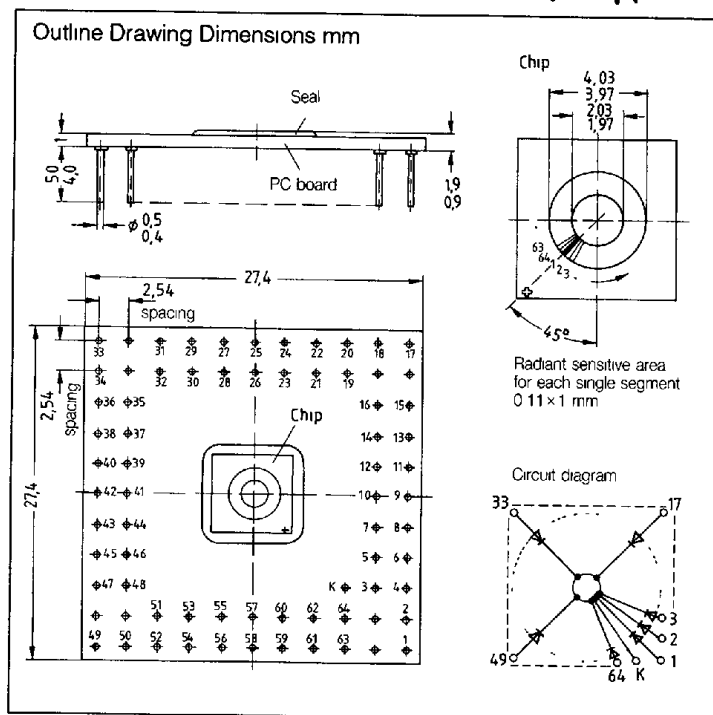
The KOM 0622059 is a 64-element circular array fabricated in planar technology with low reverse current. The N-Si material used results in a positive front and negative back contact. These photodetectors are suitable for diode operation (with reverse voltage) as well as for element operation.

The package consists of PIN-GRID array printed board with pin connectors¹⁾ 2.54 mm (1/16") lead spacing, with clear epoxy seal. The cathode is Pin 65 and marked K (see outline drawing.)

Applications include circular coordinate recognition or adjustment control, angle increment detectors with a resolution of 5.625 degrees, surface control of ring-shaped areas, e.g. bottle necks.

Note:

1 Socket PIN GRID ARRAY SOCKET UX-1111-084-GH-Y-33

**Characteristics (Single Segment)**

($T_A = 25^\circ\text{C}$, $E_v = 1000 \text{ lx}$, standard light A, $T = 2856 \text{ K}$)

Parameter	Symbol		Unit
Wavelength of Maximum			
Spectral Sensitivity	λ_s	850	nm
Spectral Sensitivity ($S = 10\%$ of S_{max})	λ	400 - 1050	nm
Radiant Sensitive Area (64 elements)	A	0.12 x 1	mm
Resolution (single segment)		5.625	Deg
Half Angle	φ	± 60	Deg
Dark Current ($V_R = 5 \text{ V}$)	I_R	15 (≤ 150)	pA
Maximum Deviation of the Spectral			
Sensitivity of the Systems from the Average Value	Δ_s	-5	%
Open-Circuit Voltage	V_o	425 (≥ 300)	mV
Photocurrent ($V_R = 5 \text{ V}$)	I_p	2.5 (≥ 1.8)	μA
Forward Voltage ($I_F = 10 \text{ mA}$)	V_F	0.9 (≤ 1)	V
Reverse Voltage ($I_R = 5 \mu\text{A}$)	V_R	18 (≥ 10)	V
Capacitance			
($V_R = 0 \text{ V}$)	C_o	23	pF
($V_R = 5 \text{ V}$)	C_s	14	pF

Photodiodes