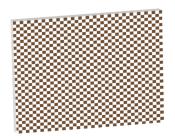


PT064-096 | DATASHEET

Checherboard calibration patter, Chrome-on-glass photomask, active area 105 x 79 mm



Imaging and metrology applications often require to minimize distortion, which can be software-corrected by analyzing the image of a precision pattern whose geometrical features are well known.

For this reason Opto Engineering® offers a full range of patterns optimized for software calibration compatible with most Opto Engineering® telecentric lenses.



SPECIFICATIONS

Dimension (W x H)	(mm x mm)	107 x 83
Thickness	(mm)	3
Active area (Wa x Ha)	(mm x mm)	105 x 79
Margins (Wm x Hm)	(mm x mm)	0.7 x 1.9
Square width (Ws)	(mm)	2.2
Photomask type		Chrome-on- glass
Substrate	Soda lime glass	
Surface quality (MIL-13830	60/40	
Class ¹	1	
Grade ¹		-
Certificate ²		
Compatible CMPH	CMPH064-096, CMTS064-096	

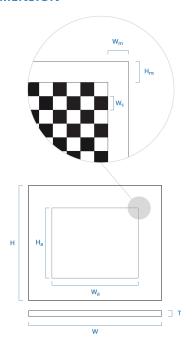
¹ Class number (2*) for Emulsion-on-glass photomasks differs from usual Chrome-on-glass. Specifications are in the tech info section.

COMPATIBILITY

The pattern is compatible with the following telecentric lenses (part number ending in):

- 064
- 072
- 080
- 085
- 096

PATTERN DIMENSION



COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.

² Download CoC Format Pattern facsimile



DIMENSIONAL TOLERANCE

It's possible to calculate dimensional tolerance of pattern's features is calculated as follows:

Dimensional tolerance = \pm (P + S \cdot D)

P = Positioning error

S = Speed factor

D = Dimension of interest

CHROME-ON-GLASS PHOTOMASK, SIZE UP TO 200 x 200mm

Class	Min Feature dimensions; Min spacing (μm)	Positioning error (µm)	Speed factor (µm/mm)
1	1.4	6.4	0.016
2	0.8	1.6	0.008
3	0.4	0.6	0.004
4	0.2	0.2	0.001

CHROME-ON-GLASS PHOTOMASK, OVER 200 x 200mm

Class	Min Feature dimensions; Min spacing (μm)	Dimensional tolerance (μm)	
Α	0.5	Total Pitch \pm 2 μ m	
В	1.0	Total Pitch \pm 4 μ m	
С	3.0	Total Pitch \pm 6 μ m	

FILM-ON-GLASS PHOTOMASK

Grade	Min Feature dimensions; Min spacing (μm)	Positioning error (µm)	Speed factor (µm/mm)
1	9.6	10.0	0.005
2	4.8	10.0	0.005
3	2.4	10.0	0.005
4	1.2	10.0	0.005