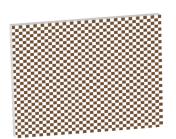


## PTCP-S1-HR1-C | DATASHEET

# Checherboard calibration patter with certificate, Chrome-on-glass photomask, active area 167.4 x 129.6 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.

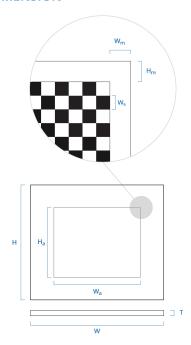


#### **SPECIFICATIONS**

(mm x mm)	180 x 140
(mm)	3
(mm x mm)	167.4 x 129.6
(mm x mm)	-
(mm)	1.35
	Chrome-on- glass
	Soda lime glass
B)	60/40
	2
	-
	with certificate
	(mm) (mm x mm) (mm x mm) (mm)

### Compatible CMPH

#### **PATTERN DIMENSION**



#### **COMPATIBLE PRODUCTS**

Full list of compatible products available here.



A wide selection of innovative machine vision components.

<sup>&</sup>lt;sup>1</sup> Class number (2\*) for Emulsion-on-glass photomasks differs from usual Chrome-on-glass. Specifications are in the tech info section.

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)	m) Dimensional tolerance (µm)	
Α	Total Pitch $\pm 2\mu m$		
В	1.0	Total Pitch $\pm$ 4 $\mu$ m	
С	3.0	Total Pitch $\pm$ 6 $\mu$ 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