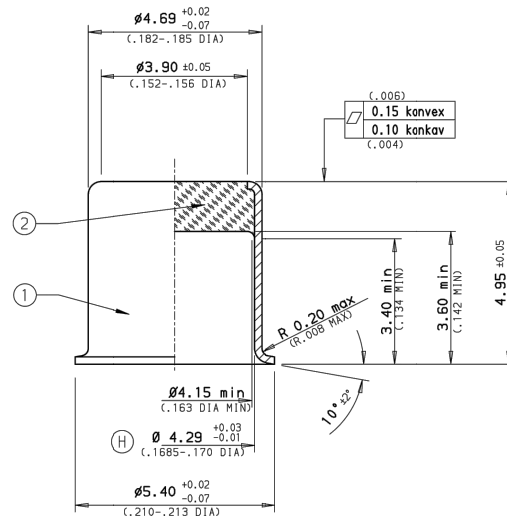


SSM P/N CAN01811W

Diese LW-Zeichnung darf nur raschnell gelesen werden.

Innerschutzvermerk: Schutzvermerk nach DIN 34 beachten!

Produktspezifikation:
SL 10.023.901



- ① NiCo2918 (KOVAR)
- ② Klarglas (CLEAR GLASS)

(IN KLAMMERN INCH-ABMESSUNGEN)

H	1x/040618/1	18.06.04	Bvs	Freiholdtoleranzen	Oberfläche: che Ni 2,5 µm min
G	1x/040617/4	17.06.04	Bvs	Form- und Lagetoleranzen	FINISH: ELECTROLESS NI 100 µ" MIN
				Datum	Name
				Bearb.	18.09.1997 Bvs
				Gepr.	29.06.2000 FLA
				Norm.	30.06.2000 Mao
				SCHOTT	
				TOTAL CUSTOMER CARE	
				Fensterkappe T018	
				Maßstab 10:1	
				SL 10.005.006 · H	
				Ersatz für: 950306/3	
				PM 1 DIN 6	



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Glass 8250

Technical Data

GlassType/Application Borosilicate glass for sealing to KOVAR metal and molybdenum, electrically highly insulating
X-ray tubes, transmitting tubes, image amplifier tubes, He-Ne-laser, clad tube for optical fibres, ozone generators

Physical Data			
Coefficient of mean linear thermal expansion			
$\alpha(20^{\circ}\text{C}; 300^{\circ}\text{C})$ (ISO 7991)	5.0	10^{-6}K^{-1}	
Transformation temperature T_g (ISO 7884-8).....	490	$^{\circ}\text{C}$	
Glass temperature at viscosity η in $\text{dPa}\cdot\text{s}$			
10^{13} (annealing point) (ISO 7884-4).....	500	$^{\circ}\text{C}$	
$10^{7.6}$ (softening point) (ISO 7884-3).....	720	$^{\circ}\text{C}$	
10^4 (working point) (ISO 7884-2).....	1055	$^{\circ}\text{C}$	
Stress-optical coefficient K (DIN 52314).....	3.6	$10^{-6}\text{mm}^2\cdot\text{N}^{-1}$	
Density ρ at 25°C	2.28	$\text{g}\cdot\text{cm}^{-3}$	
Modulus of elasticity E (Young's modulus)	64	$10^3\text{N}\cdot\text{mm}^{-2}$	
Poisson's ratio μ	0.21		
Thermal conductivity λ_w at 90°C	1.2	$\text{W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$	
Log of the electric volume resistivity ($\Omega\cdot\text{cm}$)			
at 250°C	10.0		
at 350°C	8.3		
t_{k100}	375	$^{\circ}\text{C}$	
Dielectric constant ϵ for 1 MHz at 25°C	4.9		
Dielectric loss factor $\tan \delta$ for 1 MHz at 25°C	22	10^{-4}	
Refractive index n_d ($\lambda = 587.6 \text{ nm}$)	1.487		

Chemical Resistance			
Hydrolytic resistance (ISO 719)	Class	HGB 3	
Acid resistance (DIN 12116)	Class	S 4	
Alkali resistance (ISO 695)	Class	A 3	

The heavy metal content for the elements lead, cadmium, mercury and hexavalent chromium is below 100 ppm