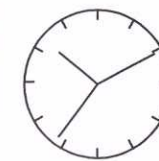
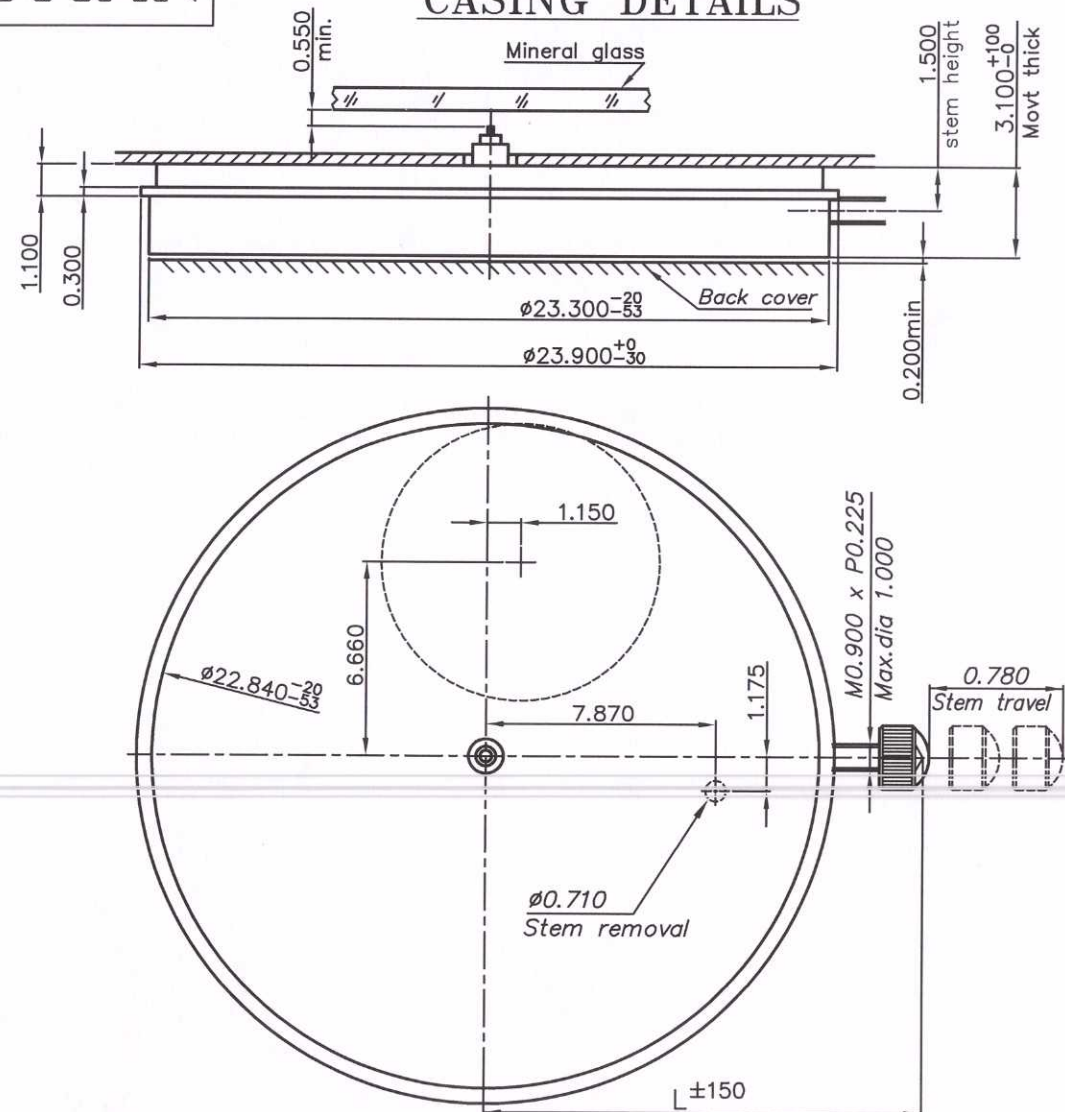




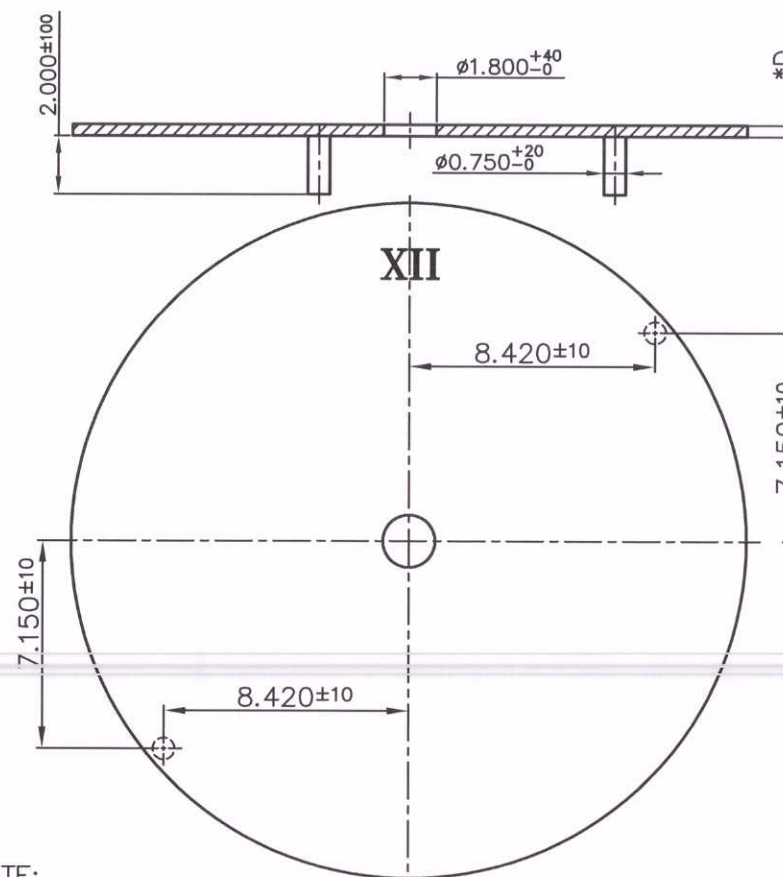
TECHNICAL DATA FOR 7120



CASING DETAILS



DIAL DETAILS



- *NOTE:**
- Cal.7120 High is for VGP/VNP dial(D) of 0.400mm thickness and Embossed / Hybrid dial(D) of 0.800mm(max.) thickness.
 - Stem height in case design to be followed according to the dial thickness.

Jewel Support	Reset Function
Needed	Available

TYPE A

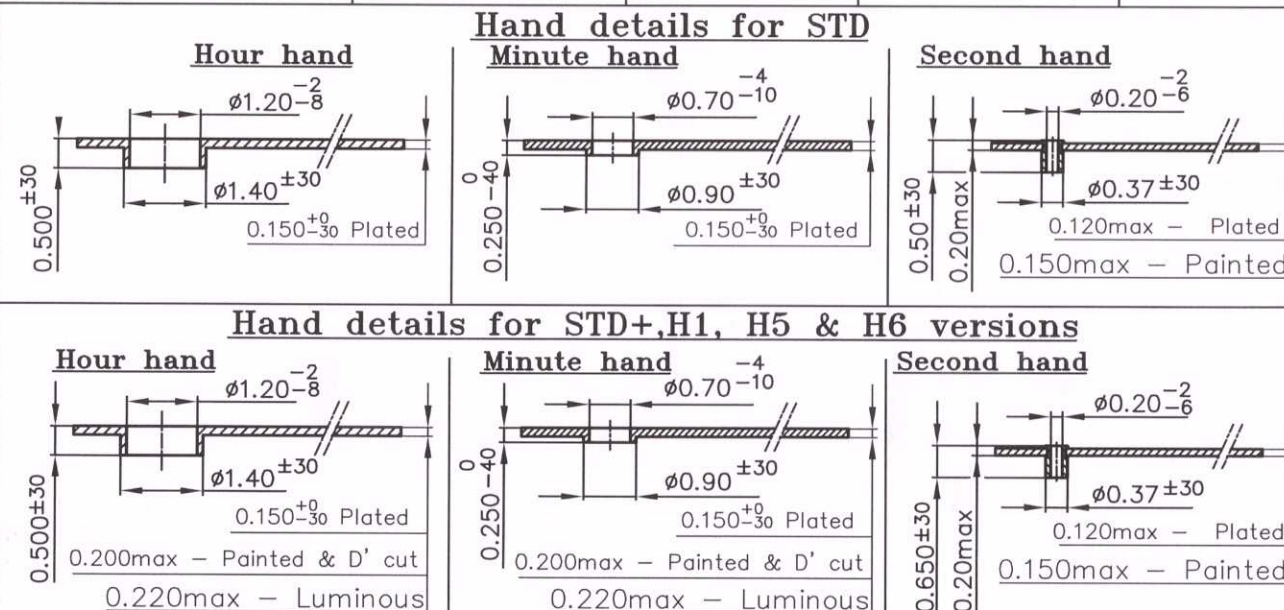
Movement size	10 1/2" (23.30 mm)
Functions	Three hands
Thickness	3.10 mm
Stem height	1.50 mm
No. of jewels	01
Type of IC	C-MOS-LSI
Quartz frequency	32,768 Hz
Accuracy	±20 sec/month
Pulse rate	1 pulse per Second.
Coil resistance	2.90 kΩ (Typ)
Current consumption	0.81μA(Typ) ~ 1.05μA(max)
Torque at Second hand	3.5 μNm(min) - 6.0 μNm(typ)
Effective temperature range	0 to +55°C
Shock resistance	As per NIHS 91/10
Resistance to magnetic field	As per NIHS 90/10

POWER CELL	Type	SR920SW
	Size	Ø9.50 x 2.1 mm
	Voltage	1.55 V
	Capacity	45 mAh
	Life (theoretical)	60 months
	Battery locking	Top clamping

HANDS	DESCRIPTION	MINUTE HAND	SECOND HAND
	Imbalance mg.mm	60	15
	Inertia mg.mm ²	500	250
	Weight mg (max).	12	7
	Length mm (max)	13	13
	Material	BRASS	AVINOL

Hand Fitting Dimensions:

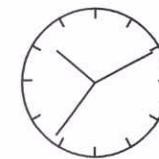
Calibre	A	B	C	D* ±20	Application
STD	0.750	1.050	1.370	0.400	Metal
STD+	0.850	1.300	1.770	0.400	Metal
H1	1.300	1.700	2.020	0.800	Metal
H4	1.020	1.820	3.300	0.400	METAL Movt HOUR DISC MINUTE DISC SECOND HAND
H5	1.600	2.000	2.370	1.200 max	Metal
H6	2.450	2.900	3.340	2.000 max	Metal



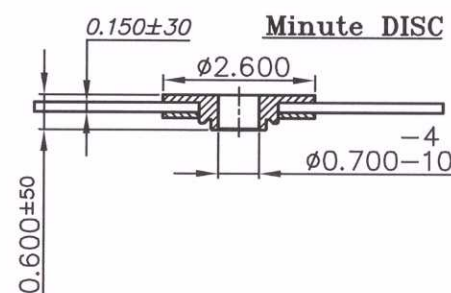
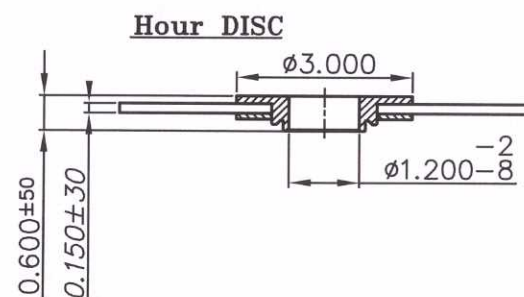
- Notes:**
- All dimensions are in mm.
 - Tolerances in μm.
 - Clearance MG to SH top increased 0.550, should consider from new case designs
 - STD+ version to use in place of STD version for using 0.220mm thick hands with good hands clearance
 - Sec. Hand tube height for STD+ & H1 version increased to 0.650±30 to be considered in future designs

i)	High version H6 added	13.7.20	RTMK
h)	Hybrid version removed/Hands detail updated/	9.12.19	SK
	Disc Hands detail Updated		
g)	Height H4 version added & Disc hand details added in sheet 2	05.06.19	AF
f)	Reep electrical details-Draft error corrected.	11.05.19	AF
e)	H5 Version added;Reep electrical details added.	03.05.19	AF
d)	In Hand fitting dim, Cal ref updated - Draft Error	3.6.16	SJ
Index	Alteration	Date	Sign
	Prepared	Checked	Approved
Name			
Date			

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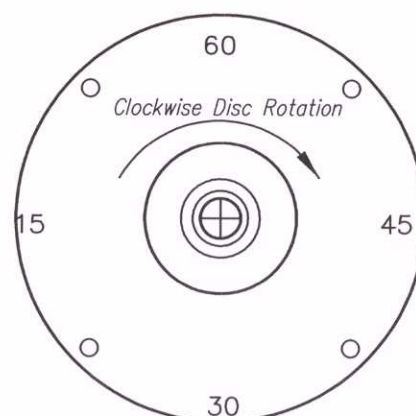
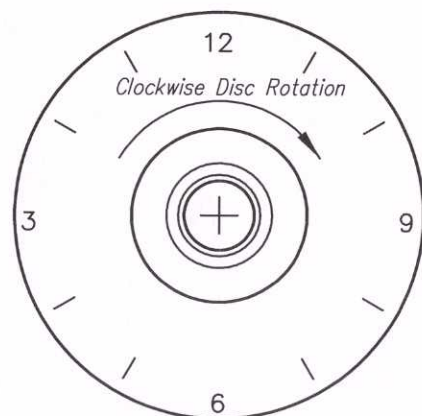
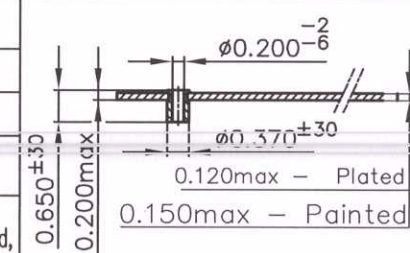
DISC Hand details (H4):



DISC Hand Specification:

Description	Hour Disc	Minute Disc
Disc Dia, mm (max)	30.00	28.00
Weight, mg (max)	150	150
Moment of Inertia, mg.mm ² (max)	15000	14000
Disc material	Poly Carbonate but when other material used, should follow Weight & MOI	

Second hand



Note for DISC Hands:

1. Disc Warpness allowed: Max 0.150mm.
2. Minute Disc Dia should be 1~2mm dia less than Hour Disc Dia
3. Reference marking to provide on Background Dial, Hour Disc & Minute Disc

K: \Drawings\Tech Data\TCL\7120.dwg

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Index		Alteration	Date	Sign
Name	Prepared	Checked	Approved	
Date				

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T-2427 i)

Sheet 2 of 2