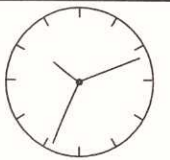


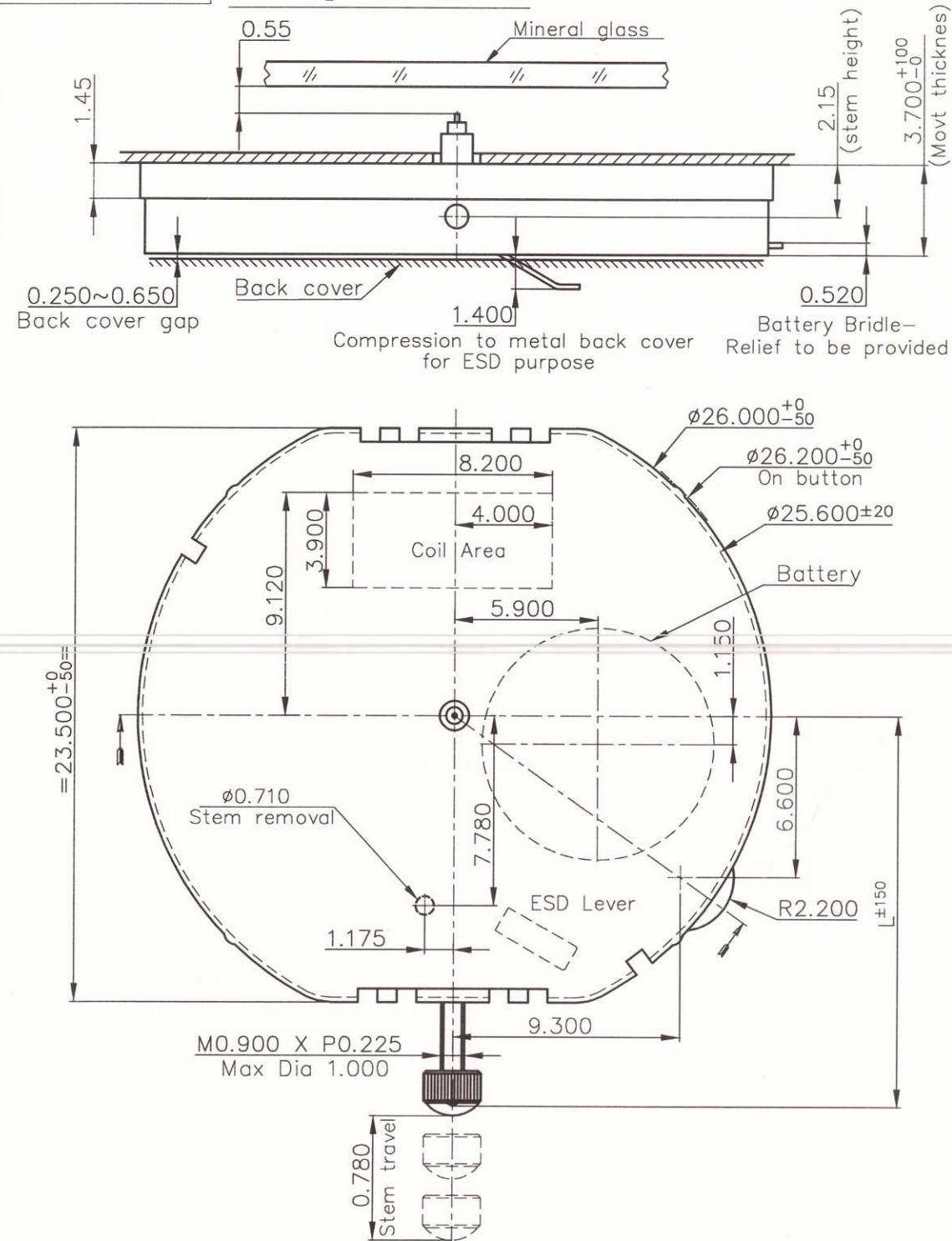


WATCH DIVISION

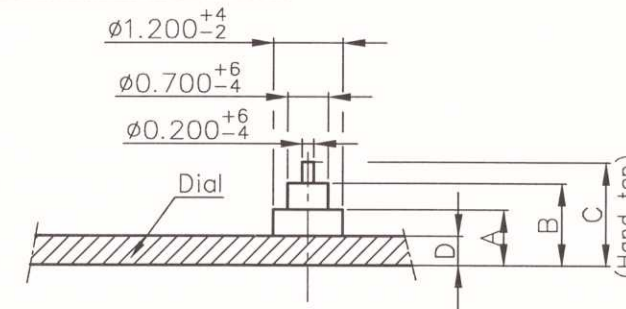
TECHNICAL DATA FOR TITAN LIGHT POWERED MOV'T - CAL. T7S20M (3HANDS)



Casing dimensions



Hand fitting dimensions



Calibre	A	B	C	D(max)
STD	1.000	1.400	1.720	0.500
H1	1.400	1.800	2.120	0.900
H2	1.850	2.300	2.750	1.300

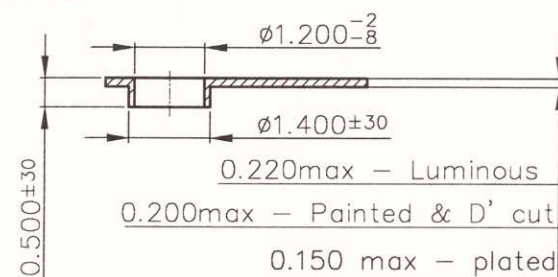
Note:

-Stem ht in case design to be followed according to the dial thick.
(Dial thickness at butting surface to case)

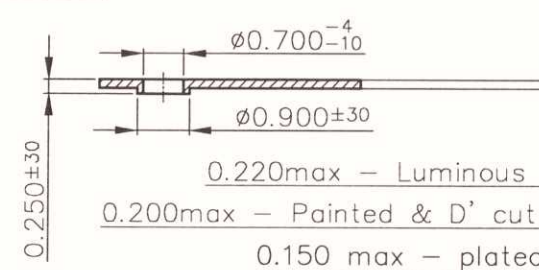
Stem	L(mm)	Stem(ref) length(mm)	Stem thread length from crown fitting side	Stock No
STD	21.800	18.620	12.400	2704153
L1	23.150	20.000	8.000	2704161
L2	27.150	24.000	12.010	2704162
L3	28.150	25.000	13.010	2704173

Hand details

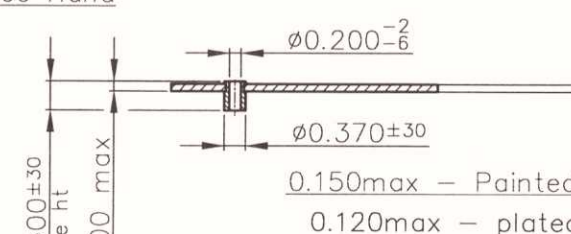
Hour hand



Minute hand



Sec Hand



Note: Use Aluminum material only

Movement size	11 1/2 X 9 1/2'"(ø25.60x23.10 mm)	
Functions	3 Hands	
Thickness	3.70 mm(Including battery)	
Stem height	2.15 mm	
No. of jewels	01	
Type of IC	MCU	
Quartz frequency	32,768 Hz	
Accuracy	±20 sec/month	
Pulse rate	1 pulse per second	
Coil resistance	2.90 kΩ	
Current consumption	*1.25 uA(min) – 2.20 uA(max)	
Torque at Second hand	3.5 µNm(min) – 6 uNm(Typ)	
Effective temperature range	0 to +55°C	
Resistance to magnetic field	As per NIHS 91/10	
	Type	Amorphous Silicon solar cell
	Size	ø23.60 x 0.20 (T)
	No. of segments	04
	Application	Indoor & outdoor

CHARGING CHARACTERISTICS

SOLAR	Light intensity in LUX		Time Required for full charge	
			Environment	Half opaque dial
	100,000		External bright sun light	* 03 Hrs.
	10,000		External cloudy	* 10 Hrs.
	500		Office lighting	* 250 Hrs.
RECHARGEABLE BATTERY	Type		MT920 (Lithium Ion battery)	
	Size		ø9.50 X 2.1 mm	
	Voltage		1.50 V	
	Capacity		5.5 mAh	
	Life (theoretical)		*4 months (After fully charged)	
	Battery clamping		Positive (top clamp)	
HANDS	DESCRIPTION		MIN. HAND	SEC HAND
	Imbalance mg.mm		60	15
	Inertia mg.mm ²		500	250
	Weight mg (max).		12	7
	Length mm (max)	Brass	13	—
		Dural	—	14

Notes: 1) All dimensions are in mm.
2) Tolerances are in µm.
3) T7S20M - Upgraded mov't with MCU
4)*Values will be reviewed after bulk production.
5) Power saving mode is available
6) Hand details updated

Index	Alterations	Date	Sig.
b	Hour hand tube ht 0.500±30 was 0.400±30	21.8.15	RTMK
a	ESD lever pos modified	24.4.15	RTMK
Prepared		Checked	Approved
Name			
Date			

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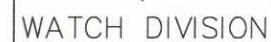
HOSUR 635 126

T-2745 b

Sheet 1 of 2

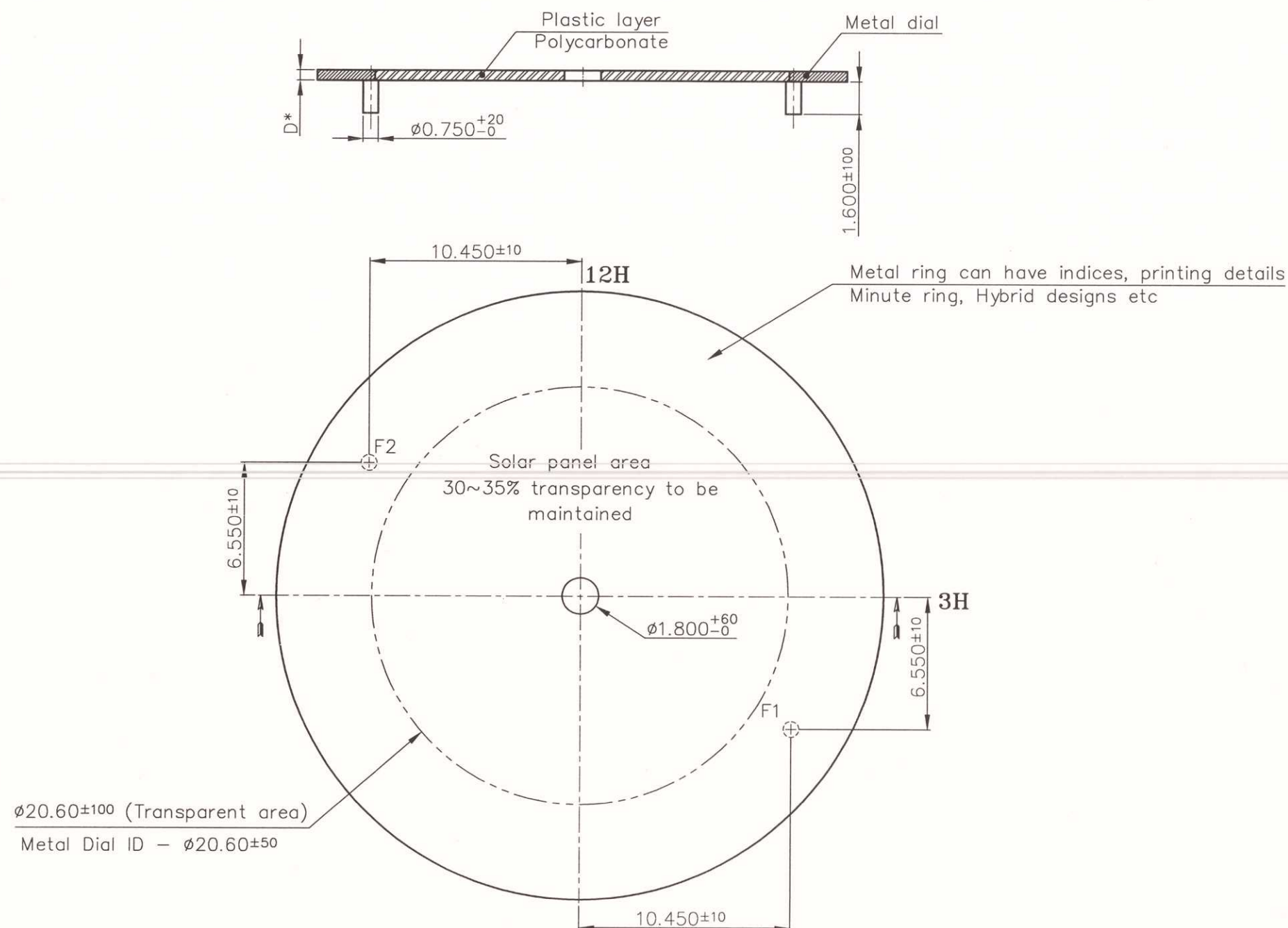
K: \Drawings\HTSE- 3\MCU version\Technical data HTSE\7S20M.dwg

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An analog clock face with a circle and 12 tick marks. The hour hand is between 1 and 2, closer to 2. The minute hand is pointing at 10. The time is 1:50.

DIAL DETAILS



NOTE:

- Indices printing/appliques should not cover more than 10% of the solar panel area (Transparent area)
- 30~35% dial transparency indicated by assuming MG transparency is 90% & above

Index	Alterations	Date	Sign

	Prepared	Checked	Approved
Name	<i>[Signature]</i>		<i>[Signature]</i>
Date	21/8/15		21/8/15

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b

T-2745

Sheet 2 of 2

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