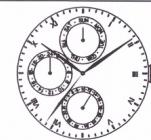


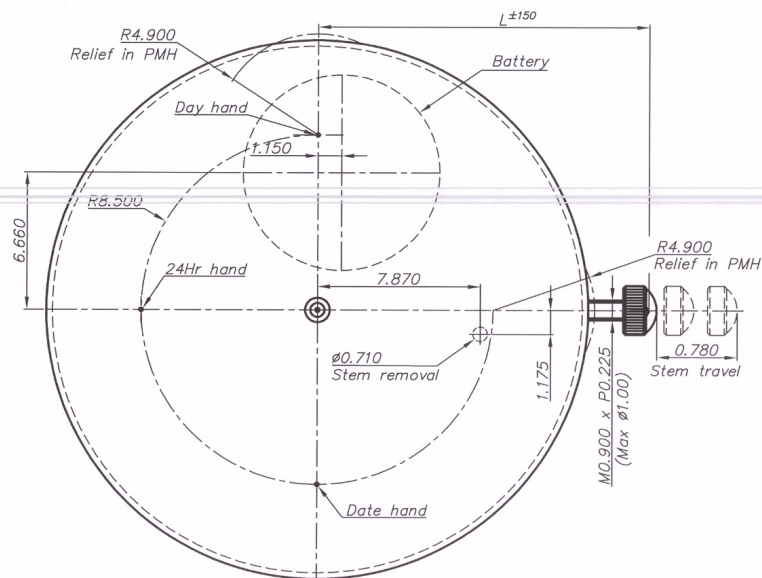
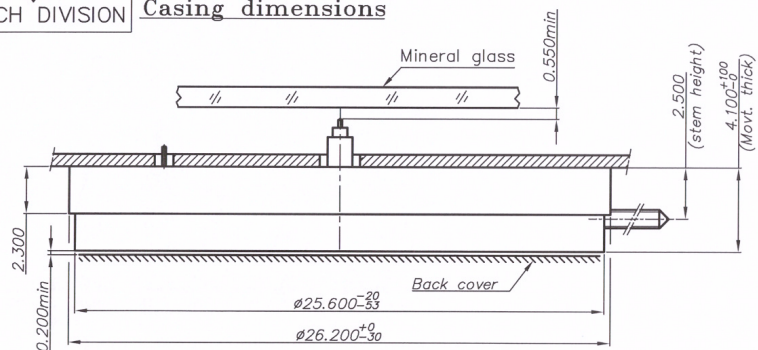


WATCH DIVISION

TECHNICAL DATA FOR MULTIFUNCTION MOVEMENT – CAL.7M33B

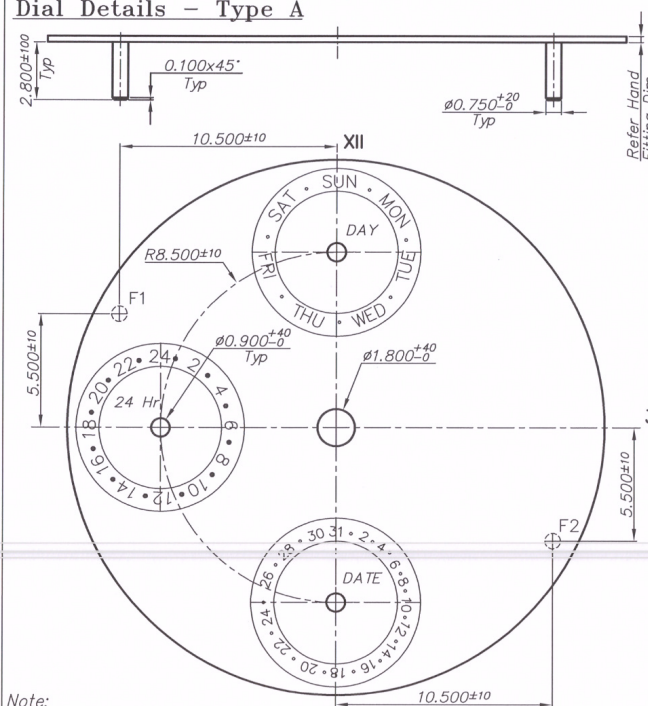


Casing dimensions



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	12.000	2704162
L3	28.150	25.000	12.000	2704173

Dial Details – Type A

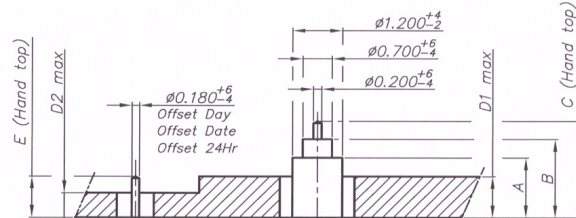


Note:

- H1 Version is for Embossed/Hybrid dial of 1.200mm(max.) thickness
- Stem height in case design to be followed according to the dial thickness
- Dial diameter @ counters to consider 0.500mm more than the hand length

Hand fitting dimensions

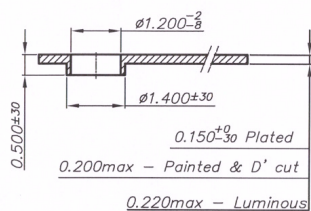
Cal	A	B	C	E	D1	D2
STD	1.450	1.900	2.340	1.000	1.000	0.600
H1	1.670	2.140	2.610	1.150	1.200	0.800



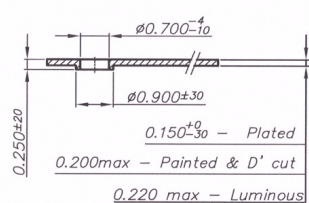
Note: Hands' clearance should be qualified against "hand usage chart" (Length & Thick)

Hand details

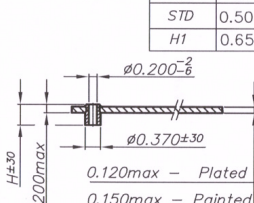
Hour hand



Minute hand

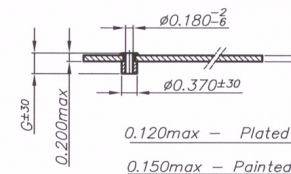


Second hand



Calibre	H
STD	0.500
H1	0.650

Offset Day hand	Calibre	G
Offset Date hand	STD	0.500
Offset 24Hr hand	H1	0.650



Notes:

- All Dim. are in mm
- Tolerance in um
- Quick setting is provided for the Day & Date.
- Crown spacer required
- Jewel support to be provided at center while hand fixing

Movement size	11 1/2" (25.60 mm)
Functions	3 hands + 3 eyes (Date @ 6H/Day @ 12H/24Hr @ 9H)
Thickness	4.10 mm (including battery)
Stem height	2.50 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
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			
Resistance to magnetic field		18.8 Oe			
POWER CELL	Type	SR920SW			
	Size	Ø9.5 x 2.1 mm			
	Voltage	1.55 V			
	Capacity	45 mAh			
	Life (theoretical)	60 months			
	Battery clamping	Positive (Top clamp)			
HANDS	DESCRIPTION	MINUTE HAND	SECOND HAND	DATE HAND 24hr HAND DAY HAND	
	Imbalance mg.mm	60	15	6	
	Inertia mg.mm ²	500	250	90	
	Weight mg (max.)	12	7	4.5	
	Length mm(max)	Brass	14.5	14.5	4.5
		Dural	17.5	17.5	—

Ind	Alterations	Date	Sign
a	Hands length details updated	29.9.19	RTMK
b	Off hand tube ht 0.650 was 0.750-H1 version	7.11.19	RTMK
	Dim 1.150 was 1.250 (E) – H1 Version		
	Hands details updated		
	Dial foot length 2.800±100 was 2.000±100		
c	Hands details updated – Length & Material	20.2.20	RTMK

Name	Prepared	Checked	Approved
Date			

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K: \Drawings\Tech data\TCL\7M33X.dwg

Sheet 1 of 1