

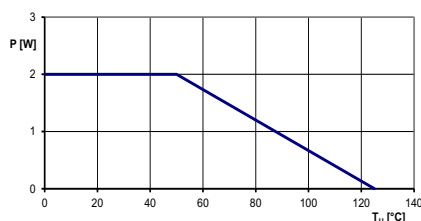


### Main characteristics

- Nominal power: 2 W
- Size 8 (Ø 19 mm)
- Wire-wound resistor ribbon, plastic housed
- Various special executions available (Sheet 10-1-11)

### Electrical characteristics

Resistance range	1R0 to 10K
Tolerance	Standard: J ( $\pm 5\%$ )
Independent linearity	0.5 %
Electrical angle	Standard: 270° / 300° On request: 320°
Absolut minimal resistance	0.2 %
Power rating	Nominal: 2 W. according to derating curve



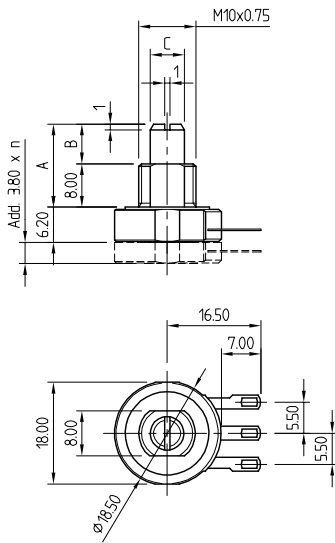
Insulation resistance	Multiple sections: 1.5 W / Sektion > 1000 M $\Omega$ at 1000 V DC / 1 minute
Dielectric strength	1000 V AC / 50 Hz / 1 minute, at 1 bar
Temperature coefficient of wire	$\leq 100R = \pm 180$ ppm / °C, > 100R = $\pm 20$ ppm / °C

### Mechanical and physical characteristics

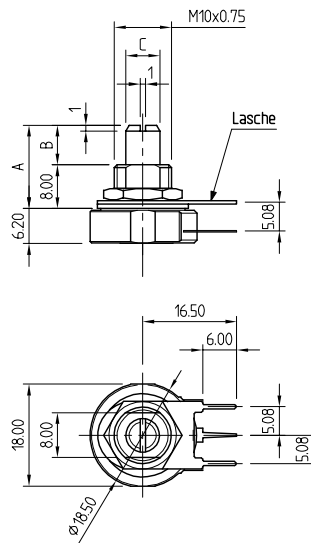
Mechanical angle	Standard: 270° / 300° On request: 320° or non-stop (360°)
Life time	Depending on resistance value
Starting torque	2 – 3 Ncm
Running torque	1 – 2 Ncm
Stop strength	50 Ncm
Bearing type	Sleeve bearing
Terminals	Gold plated beryllium copper
Sections	Maximum 4 sections
Weight	8 g (standard execution)
Ambiant temperature	From - 55 °C up to + 125 °C
Vibrations	20 g from 10 to 2'000 Hz
Shoc	MIL-R-12934 H
Salt spray test	96 h without corrosion (MIL-R-12934 H)
Humidity test (on request)	96 h with 80 to 98 % relative humidity (MIL-R-12934 H)

# Single turn precision wire-wound potentiometers series 714

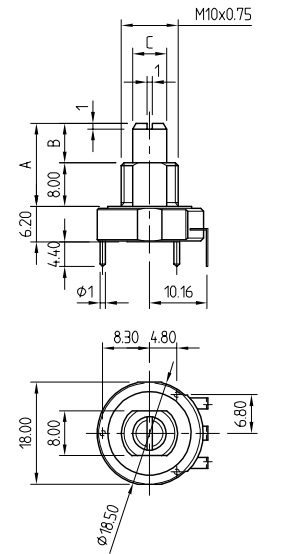
## Drawings



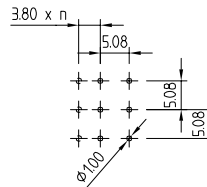
**Type 7140**



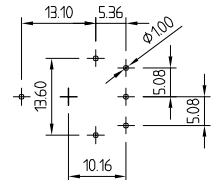
**Type 7141 with fixing plate**



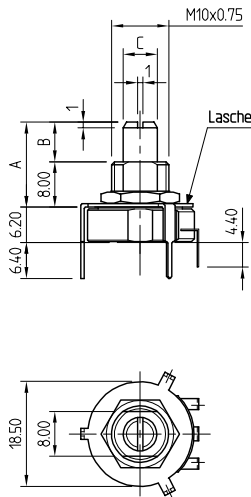
**Type 7142**



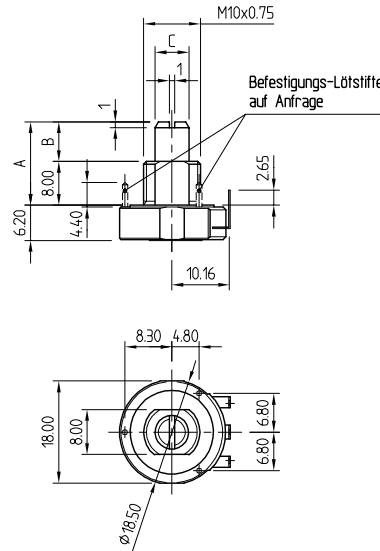
Bohrplan



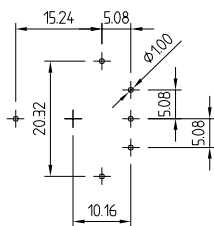
Bohrplan



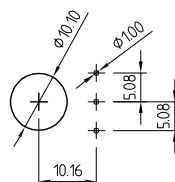
**Type 7143 with fixing plate**



**Type 7144**



Bohrplan



Bohrplan

Table for standard execution with stop and electrical angle 270° or 300° ± 2°

Nominal resistance standard	Nominal Resolution	Reference number			
		Electrical angle 270° ± 2°		Electrical angle 300° ± 2°	
		Shaft Ø 6mm	Shaft Ø 1/4"	Shaft Ø 6mm	Shaft Ø 1/4"
10 R	0.686 %	714x.1000	714x.1001	714x.1068	714x.1069
20 R	0.550 %	714x.1002	714x.1003	714x.1070	714x.1071
50 R	0.500 %	714x.1004	714x.1005	714x.1072	714x.1073
100 R	0.420 %	714x.1006	714x.1007	714x.1074	714x.1075
200 R	0.300 %	714x.1008	714x.1009	714x.1076	714x.1077
500 R	0.256 %	714x.1010	714x.1011	714x.1078	714x.1079
1 K 0	0.225 %	714x.1012	714x.1013	714x.1080	714x.1081
2 K 0	0.215 %	714x.1014	714x.1015	714x.1082	714x.1083
5 K 0	0.150 %	714x.1016	714x.1017	714x.1084	714x.1085
10 K	0.110 %	714x.1018	714x.1019	714x.1086	714x.1087

x: Lead execution see drawing on page 10-1-11

**Questionary for special executions**

Resistance(s)                    Section 1: ..... Ω / Section 2: ..... Ω  
    Section 3: ..... Ω / Section 4: ..... Ω

Tolerance                         ± 5% / Others ..... %

Electrical angle                 270° /  300° /  320°

Mechanical angle               270° /  300° /  320° /  Non-stop

Running torque                 None / Special torque: ..... Ncm

Lead- and mounting type       7140 /  7141 /  7142 /  7143 /  7144 (Sheet 10-1-11)

Shaft length B                  7 mm /  Special length: ..... mm /  Passing shaft  
 Shaft diameter C               6 mm /  6.35 mm

Execution                         Standard /  Tropical execution /  O-Ring seal on shaft

Mounting thread                 Plastic thread /  Metall thread

Switch                             None  
     Yes – operated at start  
     Yes – operated at end  
     Yes – operated at .....°

Remarks .....  
 .....  
 .....