

CHART I

DASH NO	TOTAL RESISTANCE
102	1,000
202	2,000
502	5,000
103	10,000
203	20,000
503	50,000
104	100,000

CHART II

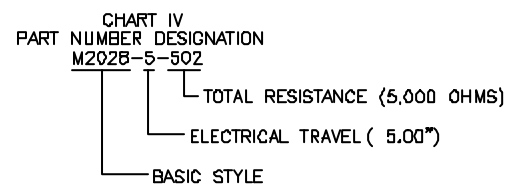
OHMS PER INCH	NUMBER OF TURNS PER INCH
500	270
1,000	370
2,000	415
2,500	450
5,000	550
10,000	660

CHART III

DASH NO.	ELECT. TRAVEL	MECH. TRAVEL	A	B
-1	1.00	1.25	12.7	10.5
-2	2.00	2.25	12.7	10.5
-3	3.00	3.25	12.7	10.5
-4	4.00	4.25	12.7	10.5
-5	5.00	5.12	12.7	10.5
-6	6.00	6.25	18.0	15.8
-7	7.00	7.25	18.0	15.8
-8	8.00	8.25	18.0	15.8
-9	9.00	9.25	18.0	15.8
-10	10.00	10.25	18.0	15.8
-11	11.00	11.25	23.2	21.0
-12	12.00	12.25	23.2	21.0
-13	13.00	13.25	23.2	21.0
-14	14.00	14.25	23.2	21.0
-15	15.00	15.25	23.2	21.0

EXAMPLE:

- LINEARITY AND RESOLUTION CALCULATIONS
- A. 5000 OHMS WITH 5" ELECTRICAL TRAVEL
HAS 270 X 5 = 1850 TOTAL TURNS.
 - B. RESOLUTION = 100/1850 = .05%.
 - C. LINEARITY = 2 X .05 = ±0.1%.



17. MATING CONNECTOR TO BE SUPPLIED.
16. SPECIAL ELECTRICAL AND MECHANICAL TOLERANCES ON REQUEST.
15. STAINLESS STEEL SHAFT.
14. ANODIZED ALUMINUM HOUSING.
13. SHAFT FRICTIONAL FORCE: 8 OZ., NOMINAL.
12. SEE CHART IV FOR PART NUMBER DESIGNATION.
11. EQUIVALENT NOISE RESISTANCE: 100 OHMS.
10. DIELECTRIC STRENGTH: 750 VOLTS AC.
9. POWER RATING: 1 WATT/INCH AT 40°C.
8. OPERATING TEMPERATURE RANGE: -55° TO +105°C.
7. TEMPERATURE COEFFICIENT OF RESISTANCE: 50 PPM/°C.
6. TOTAL MECHANICAL TRAVEL: SEE CHART III.
5. THEORETICAL ELECTRICAL TRAVEL: SEE CHART III.
4. INDEPENDENT LINEARITY: % RESOLUTION X 2.
3. THEORETICAL RESOLUTION: SEE CHART II (100/TOTAL NUMBERS OF TURNS).
2. TOTAL RESISTANCE TOLERANCE: ±5%.
1. TOTAL RESISTANCE: SEE CHART II.

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