

10741

REF. NO:

GENERAL DESCRIPTION:

MODEL LP-xxFQ IS A MINUTURE, CONDUCTIVE PLASTIC LINEAR MOTION POTENTIOMETER DESIGNED FOR HIGH PERFORMANCE AND RELIABILITY IN ITS COMPACT LIGHT WEIGHT PACKAGE. ELECTRICAL CONNECTIONS ARE MADE WITH PIGTAILED, 150mm LONG INSULATED LEADS.

ELECTRICAL SPECIFICATIONS:

ELECTRICAL TRAVEL: SEE TABLE 1
 TOTAL RESISTANCE: 0.5 or 1 KOHM ±20% (FOR LP-10FQ, LP-20FQ)
 0.5, 1, or 2 KOHMS±20% (FOR LP-30FQ)Ⓜ
 LINEARITY, INDEPENDENT: ±1%
 OUTPUT SMOOTHNESS: 0.1% MAX.
 POWER RATING: SEE TABLE 1
 TEMPERATURE COEFFICIENT: ±400 ppm MAX.
 INSULATION RESISTANCE: 100 meg OHMS @ 500Vdc
 DIELECTRIC STRENGTH: 500 Vrms @ 50/60 Hz.

MECHANICAL SPECIFICATIONS:

MECHANICAL STROKE: SEE TABLE 1
 FRICTION: 40 g MAX
 WEIGHT: SEE TABLE 1

ENVIRONMENTAL SPECIFICATIONS:

OPERATING TEMPERATURE: -25°C to +80°C
 VIBRATION: 15 G's THROUGH 1,000 Hz
 SHOCK: 50 G's
 LIFE EXPECTANCY: 10 MILLION OPERATIONS MIN.

MARKING:

UNITS SHALL BE MARKED WITH MODEL NUMBER, RESISTANCE VALUE, AND SERIAL NUMBER (OR DATE CODE).

MATERIALS:

HOUSING: NICKEL PLATED BRASS
 SHAFT: STAINLESS STEEL
 SIDE PLATES: THERMOSET PLASTIC, GLASS ENFORCED
 INSULATED WIRES: #26AWG, PVC INSULATION SLEEVE (UL1061)

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN mm(in).
 TOLERANCES:
 ANGLES: ±1.5°
 <10 mm: ±0.25
 <100 mm: ±0.5
 >100 mm: ±1

REVISION

| C.O.N | SYM | DESCRIPTION | DATE | DRAWN | APPR'D |
|-------|-----|---|----------|---------|--------|
| | A | 1) M2.5 WAS M3. | 12/02/97 | TSUGAWA | |
| | B | 1) MECH. STROKE WAS "ELECT.STROKE"±1 2) TOTAL RES.2k OHMS ADDED FOR LP-30FQ. | 11/19/99 | TSUGAWA | |



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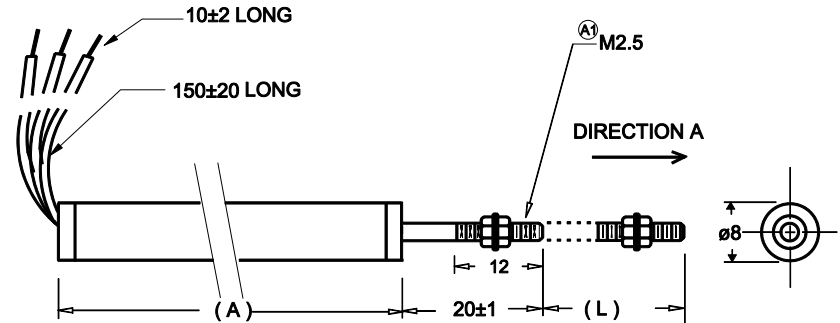


FIGURE1 OUTLINE DIMENSION

TABLE 1

| MODEL NO. | POWER RATING | ELECT STROKE | BODY LENG. (A) | MECH. STROKE (L) | NOMINAL WEIGHT |
|-----------|--------------|--------------|----------------|------------------|----------------|
| LP-10FQ | 0.3W @70DC | 10 mm | 47 mm | 15 ±1 mm | 11 g |
| LP-20FQ | 0.6W @70DC | 20 mm | 57 mm | 25 ±1 mm | 13 g |
| LP-30FQ | 0.9W @70DC | 30 mm | 67 mm | 35 ±1 mm | 15 g |

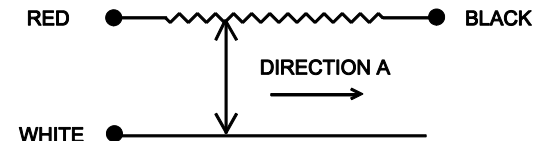


FIGURE 2 SCHEMATIC

| | | | | | | |
|--------------------|------------------|--|---|-----------|---|------|
| DRAWN T.TSUGAWA | DATE 10/14/92 | SPECIFICATION DWG FOR MODEL LP-xxFQ LINEAR POTENTIOMETER FILE: LP-xxFQ | Midori America Corporation FULLERTON, CA | A-MAC-B29 | B | |
| | CHECKED | | | | | DATE |
| | APPROVED | | DATE | 1 OF 1 | | |
| | APPROVED | | DATE | | | |
| SCALE: | | | | | | |