

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	

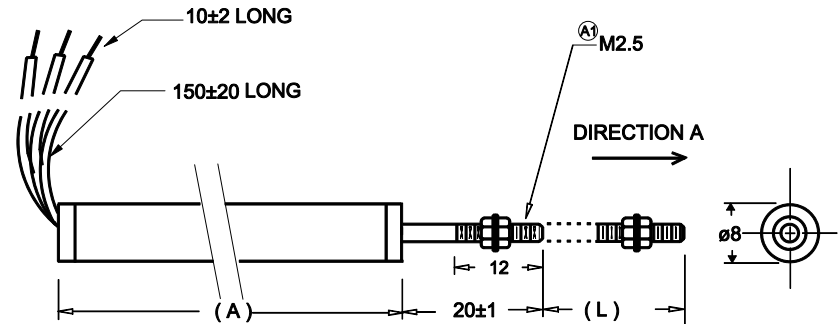


FIGURE1 OUTLINE DIMENSION

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

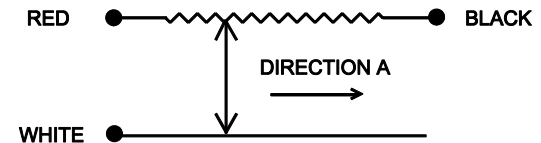


FIGURE 2 SCHEMATIC

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN mm(in). TOLERANCES: ANGLES: ±1.5° <10 mm: ±0.25 <100 mm: ±0.5 >100 mm: ±1	DRAWN T.TSUGAWA	DATE 10/14/92	SPECIFICATION DWG FOR MODEL LP-xxFQ LINEAR POTENTIOMETER	Midori America Corporation FULLERTON, CA	
	CHECKED	DATE			
	APPROVED	DATE		1 OF 1	
	APPROVED	DATE			
SCALE:	FILE: LP-xxFQ				