

10740

REF. NO:

**GENERAL DESCRIPTION:**

LP-XXFP IS A CONDUCTIVE PLASTIC RESISTIVE ELEMENT 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.

**GUEMISA**

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**ELECTRICAL SPECIFICATIONS:**

ELECTRICAL TRAVEL:

SEE TABLE 1

TOTAL RESISTANCE:

ⓑ) LP-10FP	0.5, or 1kOHMS±20%
LP-20FP	0.5, 1, 2, or 5 kOHMS ±20%
LP-30FP	0.5, 1, 2, or 5 kOHMS ±20%
LP-50FP	1, 2, 5, or 10 kOHMS ±20%
ⓑ) LP-75FP	1, 2, 5, or 10 kOHMS ±20%
LP-100FP	2, 5, 10, or 20 kOHMS ±20%

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	0,2 kOHMS deleted from LP-20 & 30FP. 0,5 kOHMS deleted from LP-50FP.	5/29/91	TSUGAWA
	B	1) MODELS LP-10FP AND LP-75FP ADDED.	11/19/99	TSUGAWA

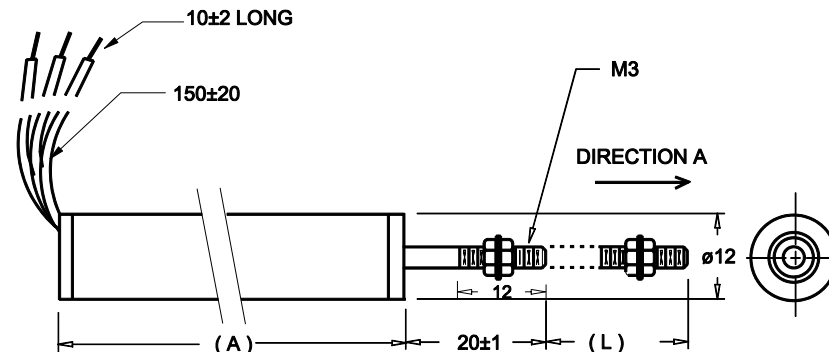


FIGURE 1 OUTLINE DIMENSION

TABLE 1

MODEL NO.	POWER RATING	ELECT STROKE	BODY LENG. (A)	MECH. STROKE (L)	NOMINAL WEIGHT
LP-10FP: ⓑ)	0.3W @70°C	10 mm	38 ±1 mm	12 ±1 mm	10 gm
LP-20FP:	0.6W @70°C	20 mm	48 ±1 mm	22 ±1 mm	20 gm
LP-30FP:	0.9W @70°C	30 mm	58 ±1 mm	32 ±1 mm	30 gm
LP-50FP:	1.5W @70°C	50 mm	78 ±1 mm	52 ±1 mm	40 gm
LP-75FP: ⓑ)	1.7W @70°C	75 mm	103 ±1 mm	77 ±1 mm	45 gm
LP-100FP:	2.0W @70°C	100 mm	128 ±1 mm	102 ±1 mm	50 gm

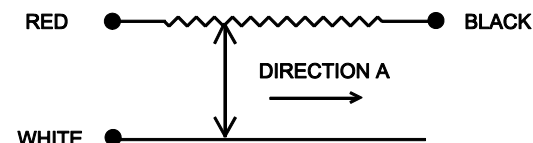


FIGURE 2 SCHEMATIC

DRAWN T. TSUGAWA	DATE 10/24/90	SPECIFICATION DWG FOR MODEL LP-xxFP LINEAR POTENTIOMETER	Midori America Corporation FULLERTON, CA	A-MAC-B03	B
CHECKED Y. NAKAMURA	DATE 7/15/91				
APPROVED I. SOMA	DATE 7/15/91				
APPROVED	DATE				
SCALE:	FILE: LP-xxFP	1 OF 1			