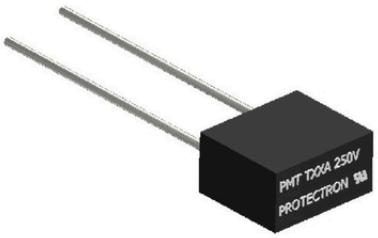
PROTECTRON®
ELECTROMECH (P) LTD

DESCRIPTION : RADIAL LEAD MICRO FUSES TIME LAG, 250V	PART NO: PMT IN

APPROVALS:



PHYSICAL DATA

MATERIAL		
BASE AND CAP	:	PA66, UL 94-V0. BLACK COLOR
ROUND PINS	:	COPPER, TIN PLATED
PACKAGING TYPE		
IN BULK	:	1000 pcs per box
ON TAPE	:	Ammo Pack, 1000pcs box

ELECTRICAL DATA

RATED CURRENT	:	40mA ~6.3A
RATED VOLTAGE	:	250V AC
LOADING CAPACITY	:	1.5In FOR 1 HOUR Minimum
INTERRUPT RATING	:	35A or 10 times the rated current whichever is greater at 250V AC

MECHANICAL PROPERTIES

TENSILE TEST	:	3Kg
THRUST TEST	:	2N
BENDING TEST	:	NO DAMAGE ARE TO BE VISUALIZED AFTER TWO BENDS OF OPPOSITE DIRECTIONS OF LEAD

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PULSE TEST :

IN ORDER TO STAND TRANSIENT CURRENT CAUSED BY INDUCTIVE OR CAPACITIVE, THE FUSES ARE DESIGNED TO HAVE MINIMUM CLEARING TIME OF MILLISECOND AT 1000% RATED CURRENT

20msec (40mA ~ 5A)

15msec (6.3A)

ENDURANCE TEST :

LOADING 100% RATED CURRENT, 1hour ON, 15minutes OFF. KEEP 100cycles.
FOLLOWED BY 1hour at 1.5 TIMES THE RATED CURRENT.

THE VOLTAGE DROP ACROSS THE FUSE-LINK AFTER THE TEST SHALL NOT HAVE INCREASED BY MORE THAN 10% OF THE ORIGINAL VALUE MEASURED BEFORE THE TEST.

DERATING TEST :

IN AN AIR CIRCULATING OVEN AT 70°c, THE FUSES CAN LOAD 100% RATED CURRENT FOR 1hour AND THEY SHALL NOT OPERATE.

SOLDERING PROCESS PARAMETER :

WAVE SOLDERING

PRE - HEAT TEMPERATURE	:	100°C ~ 160°C
PRE - HEAT TIME	:	60sec ~ 180sec
SOLDER TEMPERATURE	:	260°C Max
DWELL TIME	:	2sec ~ 5sec

MANUAL SOLDERING

SOLDER IRON TEMPERATURE	:	350°C ± 5°C
HEATING TIME	:	5sec Max

RE-FLOW SOLDERING

PRE - HEAT TEMPERATURE		
PRE - HEAT TIME		
PEAK TEMPERATURE	:	140°C ~ 165°C
SOLDERING TIME > 200°C	:	90sec ~ 120sec
	:	250°C Max
	:	30sec

SALT SPRAY TEST :

MIL-STD-202G, METHOD 101E, TEST CONDITION A

SALT SPRAY CONCENTRATION : 5±1%

TEST LIQUID TEMPERATURE : 35±0.5°C

96hrs,ΔR<15%

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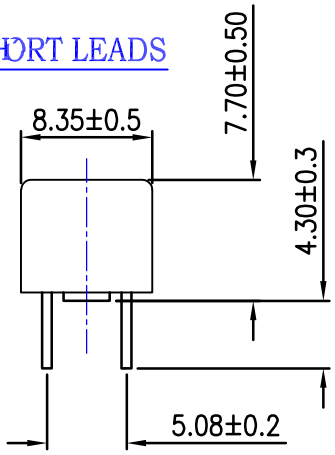
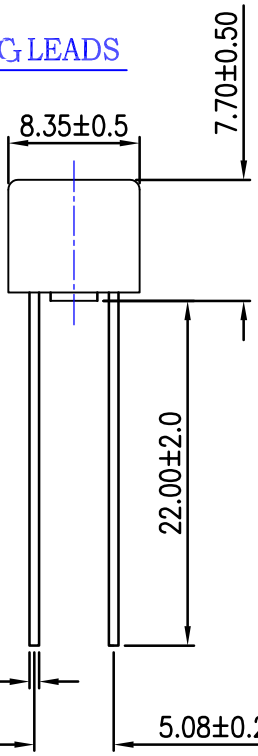
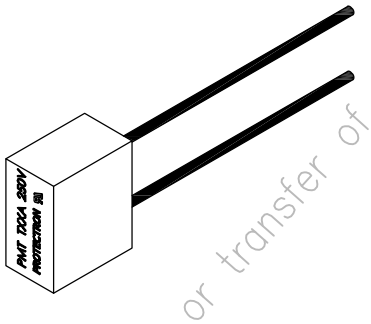
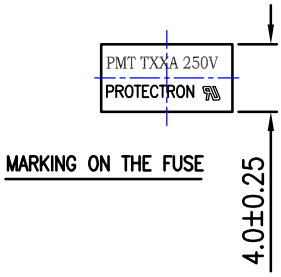
SHORT LEADS

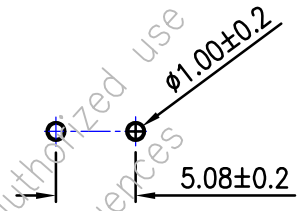


LONG LEADS

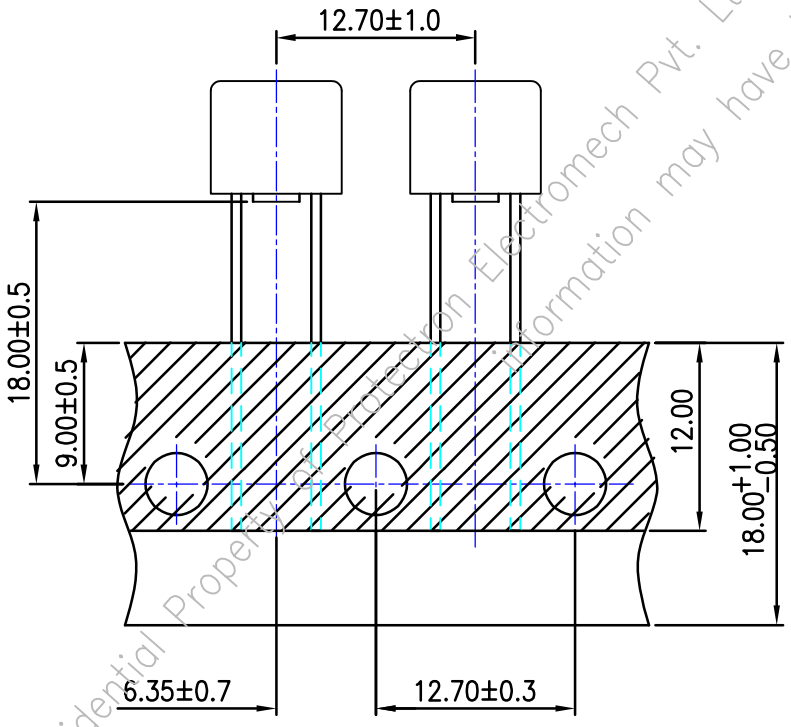


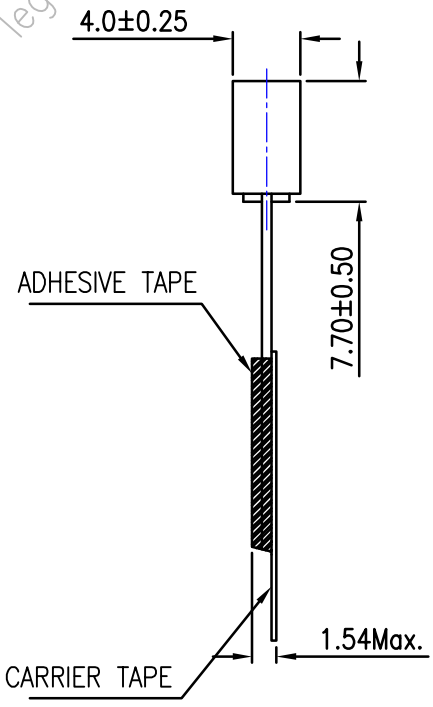






MOUNTING HOLES





Projection:	Scale: NTS	Sht. Size: A4	Gen. Tol.: ±0.25mm ±2°	ALL DIMENSIONS ARE IN MM. IF UNLESS OTHERWISE SPECIFIED.

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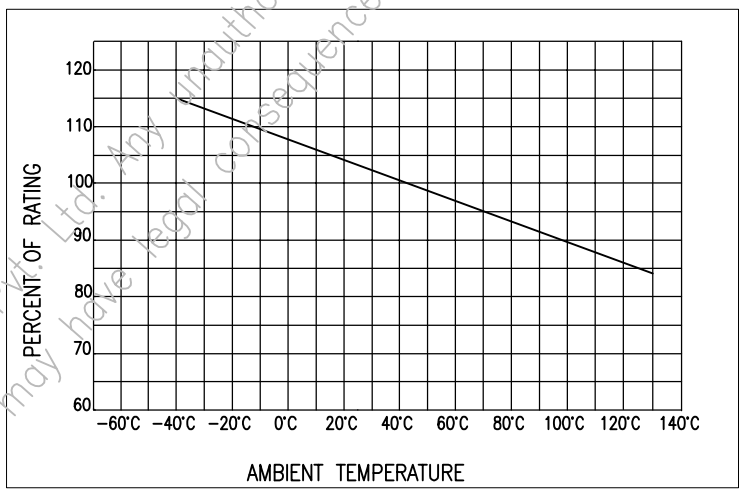
TIME-CURRENT CHARACTERISTIC

RATED CURRENT	1.5 In	2.1 In	2.75 In		4 In		10 In	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
40mA~5A	60 min	2 min	400 ms	10 sec	150 ms	3 sec	20 ms	150 ms
6.3A	60 min	2 min	400 ms	10 sec	150 ms	3 sec	15 ms	150 ms

TIME LAG FUSES TYPE PMT

PROTECTRON PART NUMBERS	Ampere Rating (In)	Voltage Rating (V)	Nominal Resistance Cold Ohms	Voltage Drop (mv) MAX	Nominal Melting I^2t A^2 Sec	SURGE TEST (KV)
PMT 0.04A	40mA	250V	10.100	600	0.0160	–
PMT 0.05A	50mA		8.9000	550	0.0165	–
PMT 0.08A	80mA		4.4405	400	0.0172	–
PMT 0.1A	100mA		2.1170	350	0.0740	–
PMT 0.125A	125mA		1.4377	300	0.1090	–
PMT 0.16A	160mA		1.2458	280	0.1500	–
PMT 0.2A	200mA		0.8240	260	0.2600	–
PMT 0.25A	250mA		0.6300	240	0.4700	–
PMT 0.315A	315mA		0.3800	220	0.7700	–
PMT 0.4A	400mA		0.2700	200	1.2000	–
PMT 0.5A	500mA		0.1950	190	1.9500	–
PMT 0.63A	630mA		0.1322	180	3.1000	–
PMT 0.8A	800mA		0.0907	160	5.1000	–
PMT 1A	1A		0.0750	140	10.500	2
PMT 1.25A	1.25A		0.0550	130	12.500	3
PMT 1.6A	1.6A		0.0425	120	20.000	4
PMT 2A	2A		0.0316	100	32.000	3
PMT 2.5A	2.5A		0.0241	100	49.000	3
PMT 3.15A	3.15A		0.0188	100	78.000	4
PMT 4A	4A		0.0136	100	138.00	6
PMT 5A	5A		0.0100	100	185.00	7
PMT 6.3A	6.3A		0.0074	100	315.00	7

TEMPERATURE RERATING CURVE



NOTE: IN CASE OF HIGHER SURGE PLEASE CONTACT FACTORY
FOR LOWER RATING i.e.,<1A SURGE TEST NOT APPLICABLE

ORDERING INFORMATION

PMT IN

(REFER TABLE)

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