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Meter Shunt Resistor

FEATURES

- Proprietary processing technique produces extremely low resistance values
- All welded construction
- Very low inductance (< 0.5 nH)

Pb-free

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	SIZE	POWER RATING $P_{70\,°C}$ W	TOLERANCE %	RESISTANCE VALUE RANGE Ω	RESISTANCE VALUES CURRENTLY AVAILABLE (1) Ω	WEIGHT (typical) g/1000 pieces
TM14002	1400	4.0	+/-5.0	1.2~1.5mΩ		2300 DIP
				Dip1 1.5mΩ Dip2 1.2mΩ		

Note

(1) Other values may be available, contact factory
(2) See drawing for test condition
(3) Test circuit

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/°C	800 for1.5mΩ without amp circuit. 400 for 1.5mΩ with amp circuit. (3)
Operating Temperature Range	°C	- 50 to +150
Maximum Current Rating	A	$(P/R)^{1/2}$

PART NUMBER INFORMATION

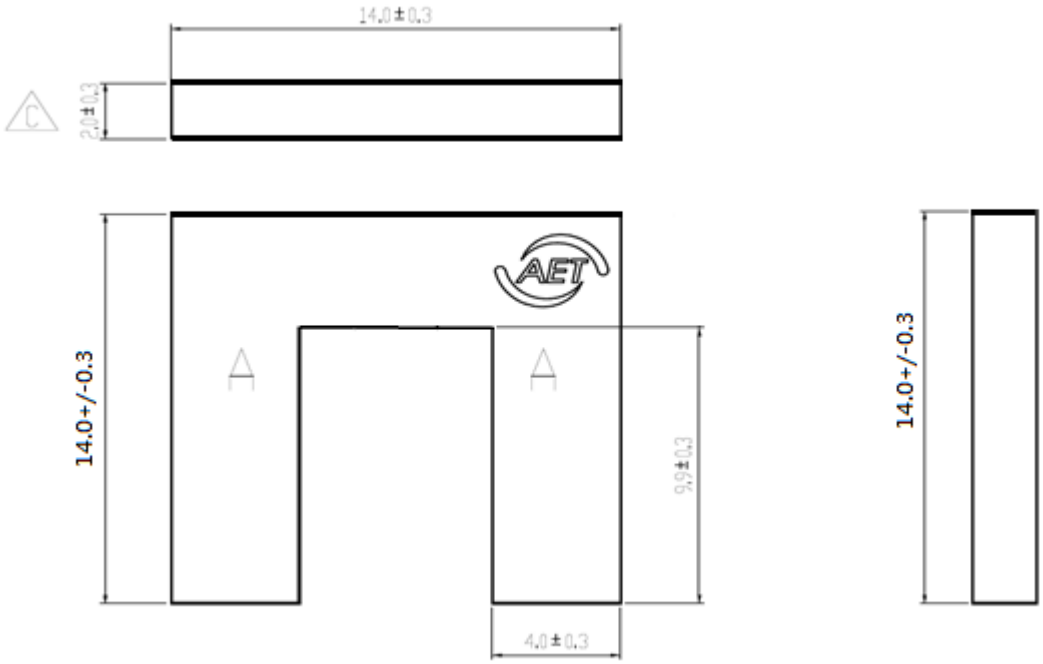
PART NUMBERING: TM14002-1M0500JP00 (TM14002, 0.0015 Ω, ± 5%)@ 25℃

T	M	1	4	0	0	2	-	1	M	5	0	0	J	P	0	0

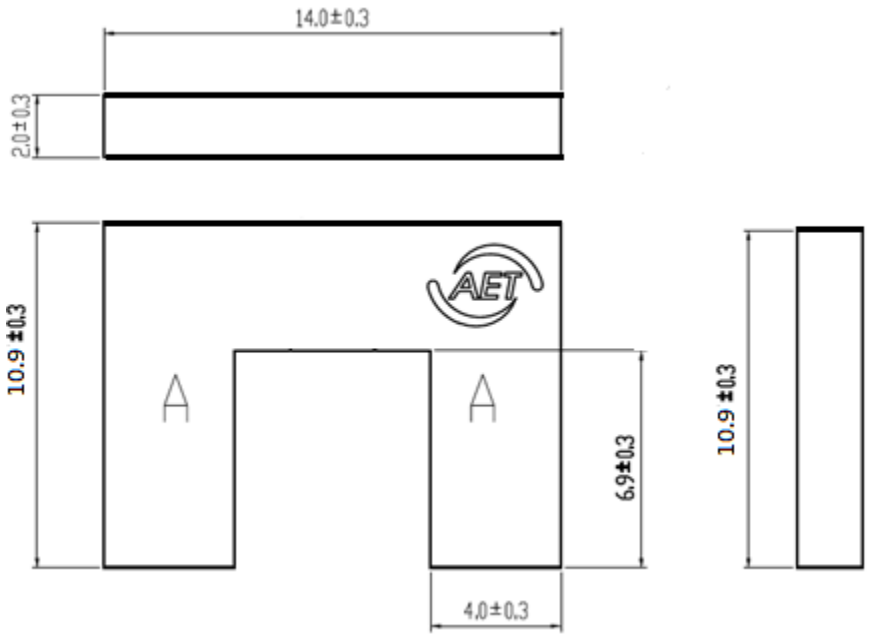
MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING CODE	SPECIAL
TM14002	**M** = mΩ **1M500** = 0.0015Ω	**J**= ± 5.0 %	**P = DIP1** **L = DIP2**	CONTACT DOT

DIMENSIONS in millimeters

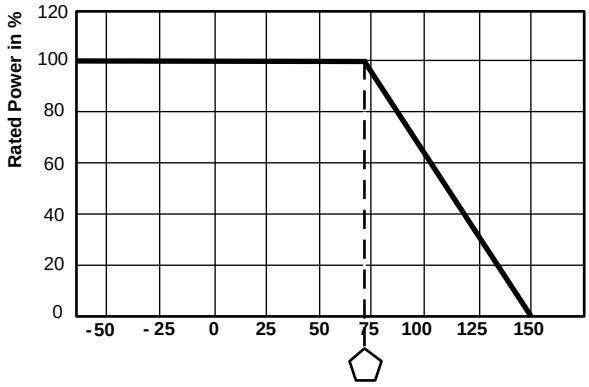
TM14002-1M500JP00



TM14002-1M200JL00



DERATING



TOLERANCES ON DECIMALS
XXX ± 0.3

RESISTANCE VALUE (mΩ)	RESISTOR THICKNESS (millimeter)	ELEMENT MATERIAL
1.5	2	Mn-Cu

(2)

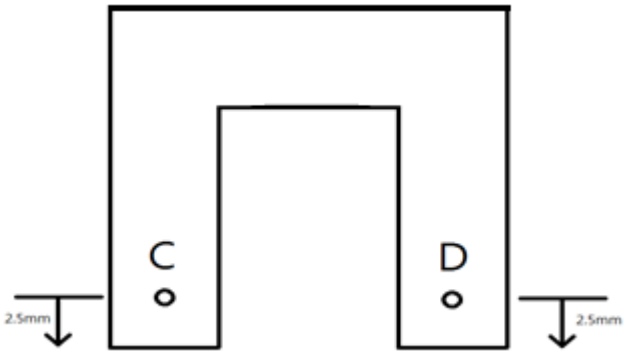
Resistance test:

Total Resistance: C-D 1.5mΩ DIP1

C-D 1.2mΩ DIP1

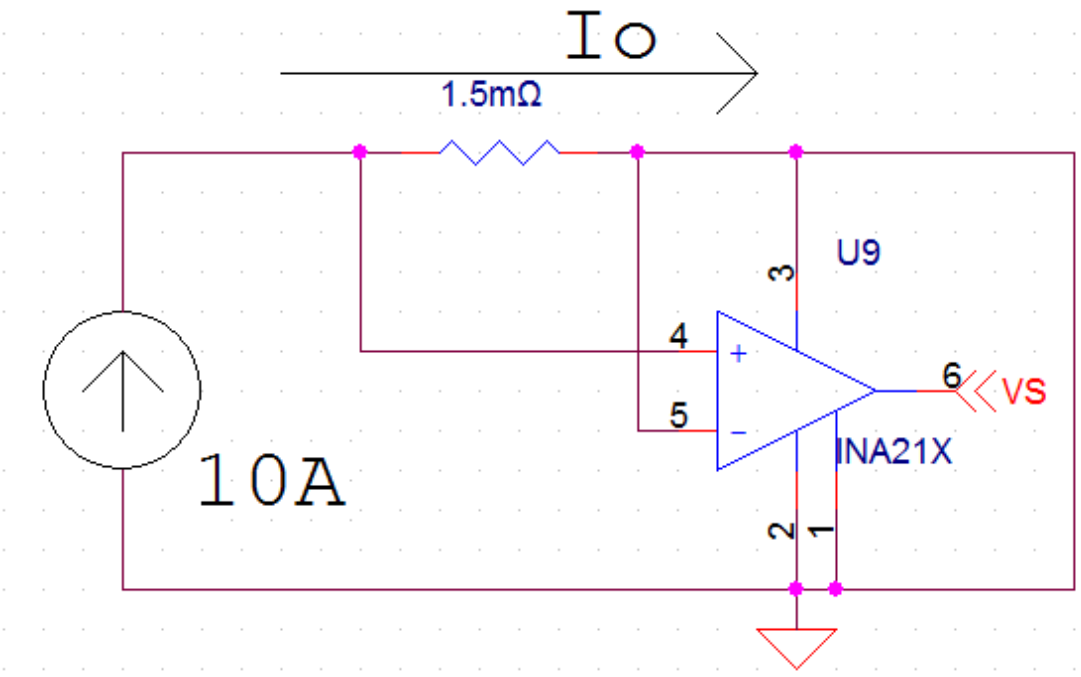
TM14002-1M500JP00 DIP1

TM14002-1M200JL00 DIP2



(3)

Test Circuit:



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Sales

Apollo Energy Technology CO., LTD.

2F., No.5-11, Sanjun St., Shulin Dist.,

New Taipei City 238, Taiwan (R.O.C.)

TEL: +886-2-2689 3162

FAX: +886-2-2689 3166