



■ FEATURES

This specification covers the High Power Current Resistor for use in Car BMS(Battery Management System), EV/HEV/PEV Battery Pack, ESS(Energy Storage System)

- * High power to resistor size ratio
- * Proprietary processing technique produces extremely low resistance values
- * Further versions with various dimensions upon request

■ GENERAL SPECIFICATIONS

Model	Max. Power Rating[W] (At terminal temp. ≤70℃)	Resistance [Ω]	Continuous current[A] at 0.1mΩ (At terminal temp. ≤110℃)	Resistance Tolerance
PMS 12	12	0.1m	200	±5% [J]
PMS 15	15		245	
PMS 36	36		350	

* Referring to power derating curve

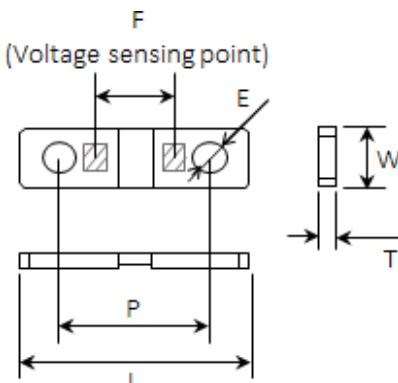
* Also available in extended ohmic ranges of 0.05mΩ to 0.5mΩ

■ CHARACTERISTICS

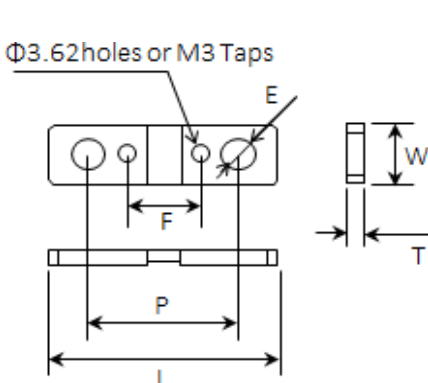
항 목 ITEM	성 능 Performance
Operating Temperature	-55℃ ~ +170℃
Temperature Coefficient	(+20℃ and +60℃) ±100ppm/℃
High Temp. exposure	±[1.0%] +125℃, 1000hours
Temperature Cycle	±[1.0%] -55℃[30minutes] to +125℃[30minutes] 1000cycles, 1min. Max. transition time
Resistance to solvent	±[1.0%] OKEM Clean or equivalent
Vibration	±[0.5%] 10-2000Hz, 5g's for 20min., 12 Cycle each of 3 orientations
Operational Life	±[1.0%] +20℃, Rated power, 1.5hours"On" 0.5hours"Off", for 1000hours

■ DIMENSIONS(mm)

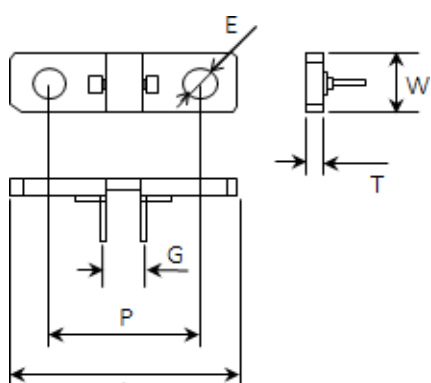
◆ Non type voltage sensing



◆ Hole(Tap) type voltage sensing

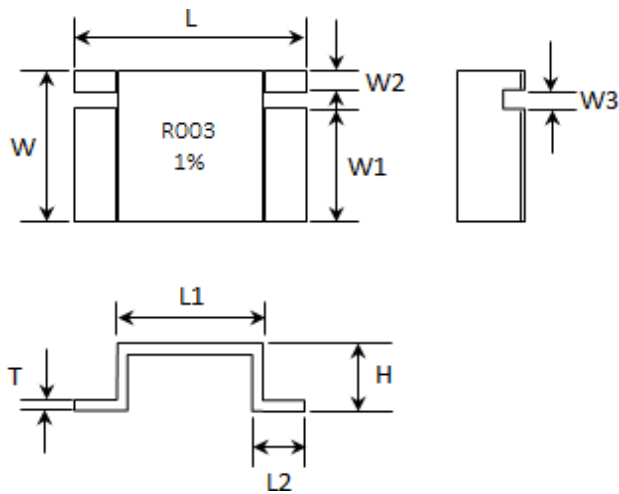


◆ Pin type voltage sensing

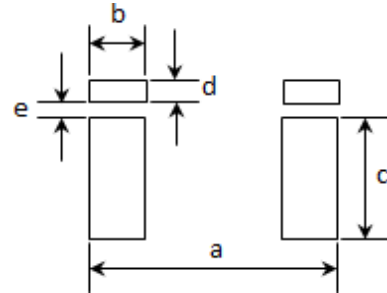


Model	Dimensions[mm]						
	L±1	W±0.5	T±0.1	P±0.5	E±0.3	F±0.5	G±0.5
PMS 12	52	16	3	33.7	6.2	15.3	7.2
PMS 15	60	18	3	42	6.6	17.1	9
PMS 36	85	18	3	60	8.3	17.1	9

◆ PMS 03 Chip type



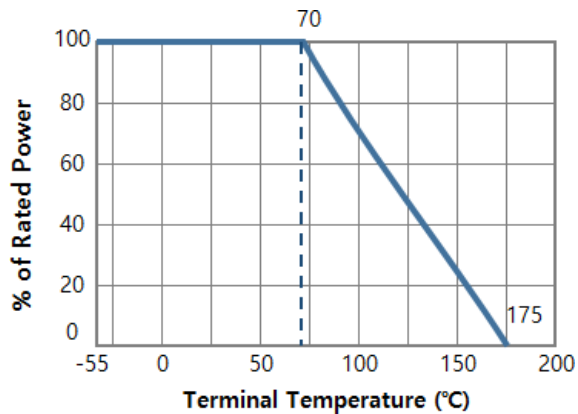
◆ PCB Land



Div.	Dimensions(mm)													
	$L \pm 0.2$	$L1 \pm 0.2$	$L2 \pm 0.1$	$W \pm 0.2$	$W1 \pm 0.1$	$W2 \pm 0.1$	$W3 \pm 0.15$	$H \pm 0.2$	$T \pm 0.05$	$a \pm 0.1$	$b \pm 0.1$	$c \pm 0.1$	$d \pm 0.1$	$e \pm 0.1$
3W	10.1	6.9	2	6.6	4.91	0.7	0.99	2.9	0.4	10.67	2.44	5.6	0.89	0.89

* Further versions with various dimensions upon request

■ POWER DERATING CURVE



■ HOW TO ORDER

PMS	12	H	R001	J
1	2	3	4	5

1. Model Type
2. Rated Wattage
3. Shape (H: Hole type, T: Tap type, P: Pin type, N: Non type, C: Chip type)
4. Resistance ($R001=0.001\Omega$)
5. Tolerance