

ISA-PLAN PRECISION SHUNT CHIP RESISTORS FOR MODULARIZED CIRCUIT **PMU, PMB**

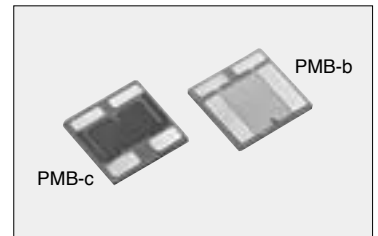
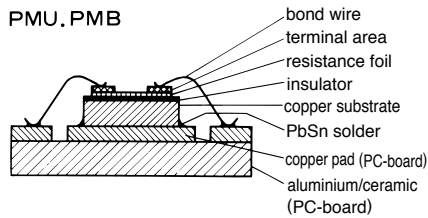
PMU, PMB : Wire bond style

Type	Contact Arrangement	Load Capacity (W)* [JFreeair	Plated Terminals	Substrate	Resistance Range (Ω)	Tolerance (%)	Thermal Resistance to Base Plate (°C/W)	Temp. Coefficient (20°C ~ 60°C) R>10mΩ	Operating Temp. (°C)	Weight (g)
PMU	a c	5 [0.3]	Ni	Cu	0.002~0.5	±1 ±2	8	±30ppm/°C R>10mΩ	-55~+125	0.4
PMB	c	20 [0.5]	Ni	Cu	0.012~0.22	±1 ±2	2.5			0.5
PMB	b		Ni	Cu	0.001~0.01					0.5

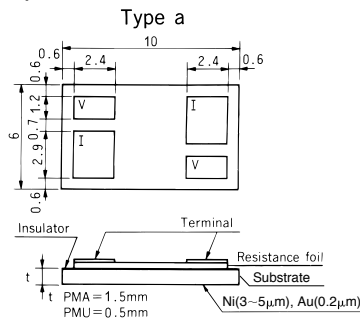
*Referring to power derating curve. Proper measures for heat radiation should be taken. **CAUTION**

Samples for mounting

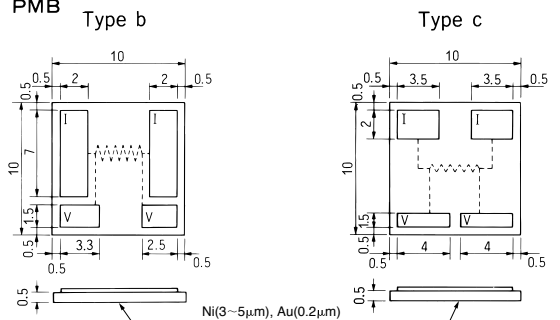
PMU, PMB



Contact Arrangement & Dimensions for PMU (Top view)



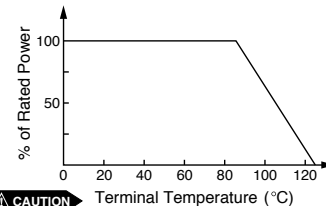
PMB



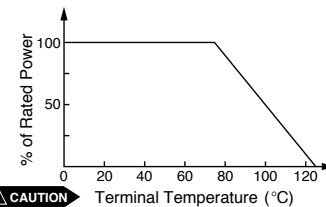
Performance

Parameters	Test Condition	Specification	Typical Test Data
Thermal Shock	-65°C, 25°C, 125°C, 25°C 25cycles	±0.2%	±0.05%
Over Load	5×Wattage Rating(Free Air) 5 sec	±0.2%	±0.05%
Resistance to Solvents	IPA 1min	No Damage	No Damage
Low Temp. Storage and Operation	MIL-R-26E	±0.1%	±0.02%
Shock	50g's 11ms	±0.2%	±0.05%
Vibration High Frequency	Peak 15g, 10~2000Hz 12Cycles 12Hr	±0.2%	±0.03%
Resistance to Soldering Heat	260°C 10sec	±0.2%	±0.05%
Moisture Resistance	Near 100%RH, +25°C, +65°C, -10°C 10cycles (10days)	±0.1%	±0.02%
Load Life	Wattage Rating(1.5Hr ON-0.5Hr OFF)2000Hr	±0.2%	±0.05%
Storage Life at Elevated Temp	MIL-STD-202 method 108A-F	±0.3%	±0.05%
High Temperature Exposure	140°C 2000Hr	±0.5%	±0.2%
Current Noise	MIL-STD-202 method 308	±0.01%	none
Voltage Coefficient	MIL-STD-202 method 309	linearity error less than 120dB	
Thermal EMF	0~100°C	-2μV/°C MAX	-0.05μV/°C
Frequency Characteristic	Inductance	<20nH	10nH

Power Derating Curve for PMU Resistors



Power Derating Curve for PMB Resistors



How to order

PMU a 6.8mΩ ±1%
 Type Contact Resistance Tolerance
 Arrangement

● Taping Standard Quantity

PMU : IEC 60286 16mm 3000 pcs
 PMB : IEC 60286 16mm 3000 pcs

● Standard Resistance E-06 Series