



- RoHS compliant*
- Medium profile offers increased power handling
- Wide assortment of pin packages enhances design flexibility
- Ammo-pak packaging available

- Recommended for rosin flux and solvent clean or no clean flux processes
- Marking on contrasting background for permanent identification

Product Characteristics

..... 10 ohms to 10 megohms
Maximum Operating Voltage..... 100 V
Temperature Coefficient of Resistance
 50 Ω to 2.2 megohms ±100 ppm/°C
 below 50 Ω ±250 ppm/°C
 above 2.2 megohms ±250 ppm/°C
TCR Tracking 50 ppm/°C
 maximum; equal values
Resistor Tolerance See circuits
Insulation Resistance
 10,000 megohms minimum
Dielectric Withstanding Voltage
 200 VRMS
Operating Temperature
 -55 °C to +125 °C

TESTS PER MIL-STD-202.....	ΔR MAX.
Short Time Overload	±0.25 %
Load Life.....	±2.00 %
Moisture Resistance.....	±0.50 %
Resistance to Soldering Heat	±0.50 %
Terminal Strength	±0.25 %
Thermal Shock	±0.25 %

Flammability Conforms to UL94V-0
Body Material Epoxy resin
Standard Packaging
.....Bulk, Ammo-pak available

46 06 M - 101 - 222 LF

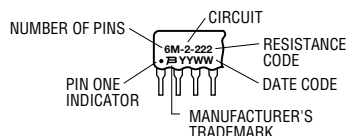
Consult factory for other available options.
 **Available for packages with 10 pins or less.

Pkg.	Ambient Temp. 70 °C	Pkg.	Ambient Temp. 70 °C
4604M	0.60	4610M	1.50
4605M	0.75	4611M	1.65
4606M	0.90	4612M	1.80
4607M	1.05	4613M	1.95
4608M	1.20	4614M	2.10
4609M	1.35		

Represents total content. Layout may vary.

Part Number	Part Number
4606M-101-RC	6M-1-RC
4608M-102-RC	8M-2-RC
4610M-104-RC/RC	10M-4-RC/RC

RC = ohmic value, 3-digit resistance code.



Technical drawing of a pin connector showing dimensions and a table of pin counts.

Dimensions shown in the drawing:

- MAX. 1.24** (BOTH ENDS (.049))
- .508 ± .050** TYP. (.020 ± .002)
- 2.54 ± .07** TYP. (.100 ± .003*) NON-ACCUM.
- 6.35 (.250) MAX.**
- 3.3 +0.5/-0.3** (.130 +.020/- .012)
- 2.49 (.098) MAX.**
- .254 ± .050** (.010 ± .002) TYP.

Pin Count	A Maximum mm (Inch)
4	10.11 (.398)
5	12.65 (.498)
6	15.19 (.598)
7	17.73 (.698)
8	20.27 (.798)
9	22.81 (.898)
10	25.35 (.998)
11	27.89 (1.098)
12	30.43 (1.198)
13	32.97 (1.298)
14	35.51 (1.398)

Maximum package length is equal to 2.54mm (.100") times the number of pins, less .005mm (.002").

Governing dimensions are in metric. Dimensions in parentheses are inches and are approximate.

*Terminal centerline to centerline measurements made at point of emergence of the lead from the body.

For Standard Values Used in Capacitors, Inductors, and Resistors, [click here](#).

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
Specifications are subject to change without notice.
Verify actual device performance in their specific applications.

For information on specific applications,
download Bourns' application notes:

- DRAM Applications
- Dual Terminator Resistor Networks
- R/2R Ladder Networks
- SCSI Applications

4600M Series - Thick Film Conformal SIPs

BOURNS®

Isolated Resistors (102 Circuit)

Model 4600M-102-RC
4, 6, 8, 10, 12, 14 Pin



These models incorporate 2 to 7 isolated thick-film resistors of equal value, each connected between two pins.

Resistance Tolerance

10 ohms to 49 ohms±1 ohm
50 ohms to 5 megohms±2 %*
Above 5 megohms ±5 %

Power Rating per Resistor

At 70 °C 0.40 watt

Power Temperature Derating Curve



Bussed Resistors (101 Circuit)

Model 4600M-101-RC
4 through 14 Pin



These models incorporate 3 to 13 thick-film resistors of equal value, each connected between a common bus (pin 1) and a separate pin.

Resistance Tolerance

10 ohms to 49 ohms±1 ohm
50 ohms to 5 megohms±2 %*
Above 5 megohms ±5 %

Power Rating per Resistor

At 70 °C 0.25 watt

Power Temperature Derating Curve



Dual Terminator (104 Circuit)

Model 4600M-104-R1/R2
4 through 14 Pin



The 4608M-104 (shown above) is an 8-pin configuration and terminates 6 lines. Pins 1 and 8 are common for ground and power, respectively. Twelve thick-film resistors are paired in series between the common lines (pins 1 and 8).

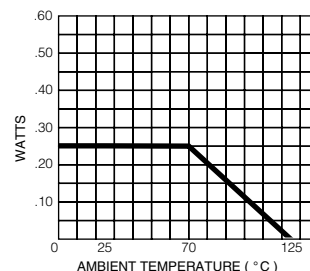
Resistance Tolerance

Below 100 ohms.....±2 ohms
100 ohms to 5 megohms±2 %*
Above 5 megohms ±5 %

Power Rating per Resistor

At 70 °C 0.25 watt

Power Temperature Derating Curve



Popular Resistance Values (101, 102 Circuits)**

Ohms	Code	Ohms	Code	Ohms	Code	Ohms	Code	Ohms	Code
10	100	180	181	1,800	182	15,000	153	120,000	124
22	220	220	221	2,000	202	18,000	183	150,000	154
27	270	270	271	2,200	222	20,000	203	180,000	184
33	330	330	331	2,700	272	22,000	223	220,000	224
39	390	390	391	3,300	332	27,000	273	270,000	274
47	470	470	471	3,900	392	33,000	333	330,000	334
56	560	560	561	4,700	472	39,000	393	390,000	394
68	680	680	681	5,600	562	47,000	473	470,000	474
82	820	820	821	6,800	682	56,000	563	560,000	564
100	101	1,000	102	8,200	822	68,000	683	680,000	684
120	121	1,200	122	10,000	103	82,000	823	820,000	824
150	151	1,500	152	12,000	123	100,000	104	1,000,000	105

* ±1 % tolerance is available by adding suffix code "F" after the resistance code.

**Non-standard values available, within resistance range.

Popular Resistance Values (104 Circuit)**

Resistance			
Ohms		Code	
R ₁	R ₂	R ₁	R ₂
160	240	161	241
180	390	181	391
220	270	221	271
220	330	221	331
330	390	331	391
330	470	331	471
3,000	6,200	302	622

REV. 07/10

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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