



*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:

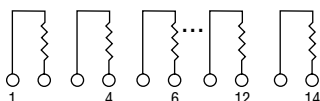
- DRAM Applications
- Dual Terminator Resistor Networks
- R/2R Ladder Networks
- SCSI Applications

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.

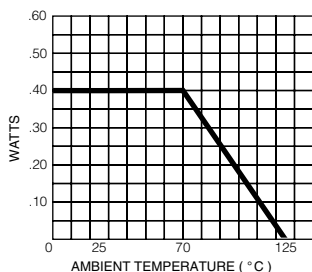
Resistance Tolerance

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

Power Rating per Resistor

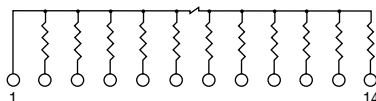
At 70 °C 0.40 watt

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.

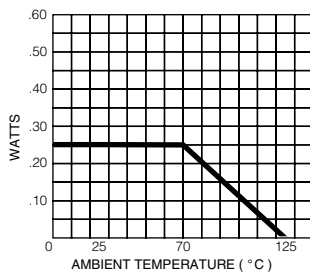
Resistance Tolerance

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

Power Rating per Resistor

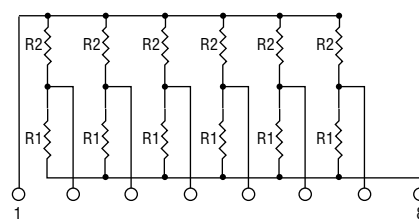
At 70 °C 0.25 watt

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).

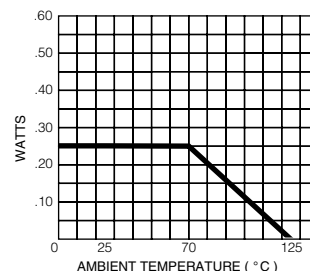
Resistance Tolerance

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.

Mouser Electronics

Authorized Distributor

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Bourns:

4612M-102-182LF	4612M-101-122LF	4612M-102-122LF	4612M-101-182LF	4609M-101-152LF	4608M-102-121LF
4608M-101-121LF	4608M-102-151LF	4608M-101-151LF	4605M-101-393LF	4609M-101-122LF	4606M-102-562LF
4606M-101-562LF	4609M-101-392LF	4611M-101-334LF	4610M-102-203LF	4610M-101-203LF	4610M-101-223LF
4610M-102-223LF	4608M-101-561LF	4608M-102-561LF	4610M-102-683LF	4610M-101-683LF	4611M-101-101LF
4611M-101-151LF	4611M-101-121LF	4611M-101-181LF	4606M-102-564LF	4609M-101-182LF	4606M-101-564LF
4608M-102-181LF	4608M-101-181LF	4612M-101-224LF	4612M-102-224LF	4613M-101-474LF	4608M-101-101LF
4608M-102-101LF	4605M-101-333LF	4610M-101-184LF	4606M-102-682LF	4610M-102-184LF	4612M-102-684LF
4613M-101-393LF	4609M-101-472LF	4608M-102-202LF	4614M-102-272LF	4614M-101-222LF	4614M-102-222LF
4607M-101-154LF	4614M-101-272LF	4610M-102-560LF	4606M-102-100LF	4606M-102-823LF	4614M-101-224LF
4610M-102-330LF	4607M-101-474LF	4610M-102-100LF	4610M-102-390LF	4612M-102-332LF	4606M-101-823LF
4605M-101-154LF	4606M-102-332LF	4607M-101-824LF	4606M-101-332LF	4606M-101-392LF	4606M-102-392LF
4613M-101-394LF	4606M-102-102LF	4606M-102-105LF	4614M-101-271LF	4614M-102-271LF	4611M-101-474LF
4608M-102-102LF	4608M-102-105LF	4610M-102-272LF	4610M-101-272LF	4606M-101-154LF	4607M-101-392LF
4607M-101-332LF	4606M-102-154LF	4611M-101-823LF	4613M-101-272LF	4612M-102-334LF	4612M-101-334LF
4614M-102-821LF	4609M-101-680LF	4614M-101-821LF	4609M-101-270LF	4607M-101-820LF	4607M-101-680LF
4613M-101-153LF	4613M-101-123LF	4613M-101-822LF	4612M-101-393LF	4612M-102-393LF	4611M-101-103LF
4606M-102-124LF	4608M-102-682LF	4605M-101-681LF	4606M-101-124LF		