

THICK FILM MILITARY QUALIFIED MOLDED SIPs/LOW PROFILE

- Molded package is compatible with automatic insertion equipment
- Low profile is compatible with DIPs

Models M83401-07/M83401-08/M83401-09

B® Resistor Network

Electrical Specifications

Temperature Coefficient of Resistance (TCR)
 Maximum Ambient Temperature @ Rated Power
 Maximum Ambient Temperature @ Zero Power ...
 Resistance Tolerance

CHARACTERISTICS		
	K	M
TCR	±100ppm/°C	±300ppm/°C
Max Temp @ Power	70°C	70°C
Max Temp @ Zero Power	125°C	125°C
F	F = ± 1%	F = ± 1%
G	G = ± 2%	G = ± 2%
J	J = ± 5%	J = ± 5%

Environmental Specifications

Thermal Shock ΔR Plus Power Conditioning ΔR ...
 Low Temperature Operation ΔR
 Short Time Overload ΔR
 Terminal Strength ΔR
 Resistance to Soldering Heat - ΔR
 Moisture Resistance ΔR
 Shock ΔR
 Vibration - High Frequency ΔR
 Life ΔR
 High Temperature Exposure ΔR
 Low Temperature Storage ΔR
 Insulation Resistance

	K	M
Thermal Shock	± 0.7%	± 0.7%
Low Temp Op	± 0.25%	± 0.5%
Short Time Overload	± 0.25%	± 0.5%
Terminal Strength	± 0.25%	± 0.25%
Soldering Heat	± 0.25%	± 0.25%
Moisture Resistance	± 0.5%	± 0.5%
Shock	± 0.25%	± 0.25%
Vibration	± 0.25%	± 0.25%
Life	± 0.5%	± 2.0%
High Temp Exposure	± 0.5%	± 1.0%
Low Temp Storage	± 0.25%	± 0.5%
Insulation Resistance	10,000MegΩ	10,000MegΩ

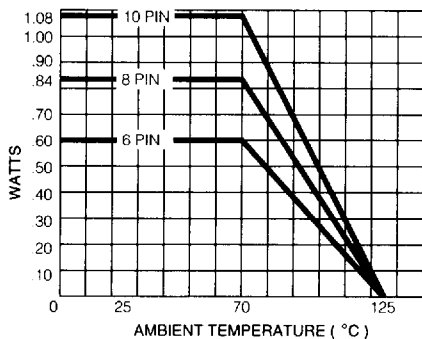
Mechanical Specifications

Flammability
 Lead Frame Material Copper (OLIN 194) 60/40 solder dip
 Body Material Novolac epoxy

Schematic C (Bussed)

PACKAGE POWER RATING AT 70°C
 10-Pin 1.08 watts
 8-Pin84 watts
 6-Pin60 watts

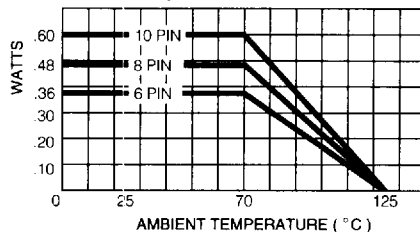
DERATING CURVE



Schematic G (Isolated)

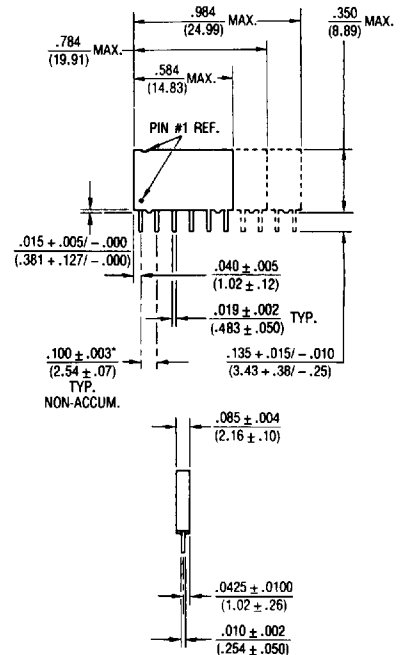
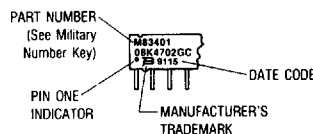
PACKAGE POWER RATING AT 70°C
 10-Pin60 watts
 8-Pin48 watts
 6-Pin36 watts

DERATING CURVE



TYPICAL PART MARKING

Represents total content. Layout may vary.



Governing dimensions are in inches. Dimensions in parentheses are metric (mm) and are approximate.
 *Terminal centerline to centerline measurements made at point of emergence of the lead from the body.

MILITARY NUMBER KEY

M83401 08 K - XXXX G C

Military Resistor Network Identifier

Number of Pins

- 07 = 6-pin
- 08 = 8-pin
- 09 = 10-pin

Characteristic (See specifications above)

Resistance Code

- First 3 digits are significant (R indicates decimal point)
- Fourth digit represents number of zeros to follow

Tolerance

- F = ± 1%
- G = ± 2%
- J = ± 5%

Schematic

- C = Bussed
- G = Isolated

Specifications are subject to change without notice.

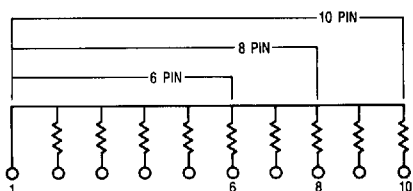
- High temperature lead attachment to withstand reflow temperature up to 260°C
- Copper leads for superior heat dissipation

Models M83401-07/M83401-08/M83401-09

B® Resistor Network

BUSSED RESISTORS

- Mil-Style 07 (6-Pin)
- Mil-Style 08 (8-Pin)
- Mil-Style 09 (10-Pin)



SCHEMATIC C

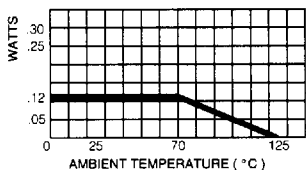
Resistance Tolerance

- F ±1%
- G ±2%
- J ±5%

Power Rating each Resistor

At 70°C 0.12 watt

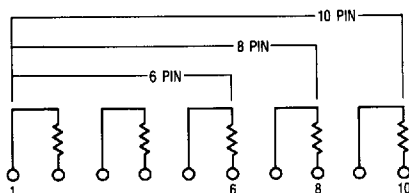
POWER TEMPERATURE DERATING CURVE



These models incorporate 5, 7 or 9 thick-film resistors of equal value, each connected between a common bus (pin1) and a separate pin.

ISOLATED RESISTORS

- Mil-Style 07 (6-Pin)
- Mil-Style 08 (8-Pin)
- Mil-Style 09 (10-Pin)



SCHEMATIC G

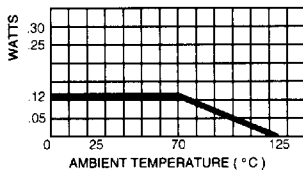
Resistance Tolerance

- F ±1%
- G ±2%
- J ±5%

Power Rating each Resistor

At 70°C 0.12 watt

POWER TEMPERATURE DERATING CURVE



These models incorporate 3, 4 or 5 isolated thick-film resistors of equal value, each connected between two pins.

STANDARD RESISTANCE TABLES

For 2% and 5% tolerance resistance values and codes, see page 124.

For 1% tolerance resistance values and codes, see pages 124, 125.

Military Part Number	Commercial Equivalent (Ref. Only)
M8340107KXXXXGG M8340107KXXXXJG M8340107MXXXXGG M8340107MXXXXJG	4306R-102-RC
M8340107KXXXXGC M8340107KXXXXJC M8340107MXXXXGC M8340107MXXXXJC	4306R-101-RC
M8340108KXXXXGG M8340108KXXXXJG M8340108MXXXXGG M8340108MXXXXJG	4308R-102-RC
M8340108KXXXXGC M8340108KXXXXJC M8340108MXXXXGC M8340108MXXXXJC	4308R-101-RC
M8340109KXXXXGG M8340109KXXXXJG M8340109MXXXXGG M8340109MXXXXJG	4310R-102-RC
M8340109KXXXXGC M8340109KXXXXJC M8340109MXXXXGC M8340109MXXXXJC	4310R-101-RC