

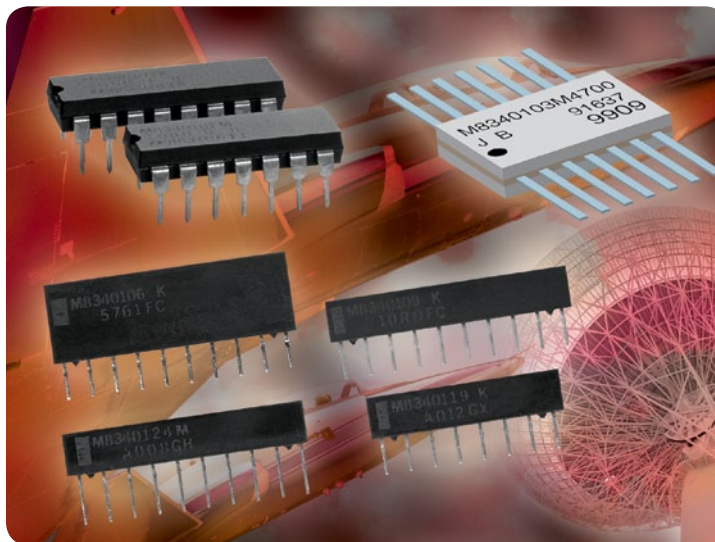


MILITARY NETWORKS

MIL-PRF-83401, M83401, C83401



Wide Range of Power Ratings



KEY FEATURES

- A wide range of power ratings (0.325 W to 1.8 W)
- A wide resistance range (10 Ω to 1 M Ω)
- Low/high temperature performance (- 55 $^{\circ}$ C to + 125 $^{\circ}$ C)
- Tight tolerances (down to \pm 1 %)
- Constructed using thick film resistive elements
- MIL-PRF-83401 qualified
- 100 % screen tested per group A
- Hot-solder dipped
- Isolated, bussed, or dual-terminator

RESOURCES

- For technical questions contact resistors@vishay.com
- Sales Contacts: <http://www.vishay.com/doc?99914>

Resistors - Wide Range of Power Ratings

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components



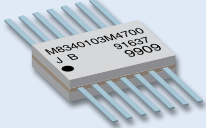
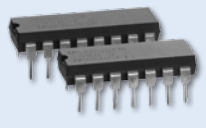


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Resistors - Wide Range of Power Ratings

| Model | Product | Wattage Rating | Resistance Range | Tolerance | Part Number Definition | | |
|---|----------------------|----------------|------------------|---|---|----------------------|--|
| Non-Established Reliability | | | | | | | |
| MIL-PRF-83401  | DFM1411 | 0.350 | 10 Ω - 1 MΩ | ± 2 % standard, ± 1 % and ± 5 % available | M8340103 M 6801 G A | | |
| | DFM1412 | 0.325 | 10 Ω - 1 MΩ | | M8340103 M 6801 G B | | |
| | DFM1415 | 0.350 | J (15) Schematic | | M8340103 K A001* G J | | |
| | | | Code | | R1 | R2 | 1 2 3 4 5 |
| | | | A001 | | 82 | 130 | 1. Detail specification number 2. Characteristic M = ± 300 ppm/°C K = ± 100 ppm/°C 3. Resistance Value * Values per MIL-PRF-83401 codes Contact factory for stocked values 4. Tolerance 5. Schematic A = 11 B = 12 J = 15 |
| | | | A002 | | 120 | 200 | |
| | | | A003 | | 130 | 210 | |
| | | | A004 | | 160 | 260 | |
| | | | A005 | | 180 | 240 | |
| | | | A006 | | 180 | 390 | |
| | | | A007 | | 220 | 270 | |
| | | | A008 | | 220 | 330 | |
| | | | A009 | | 330 | 390 | |
| | | | A010 | | 330 | 470 | |
| | | | A011 | | 330 | 680 | |
| | | | A012 | | 1.5 K | 3.3 K | |
| | | | A013 | | 3 K | 6.2 K | |
| | | | A014 | | 180 | 270 | |
| | | | A015 | | 270 | 270 | |
| A016 | 560 | 560 | | | | | |
| A017 | 560 | 1.2 K | | | | | |
| A018 | 620 | 2.7 K | | | | | |
| MIL-PRF-83401  | MDM14 01 | 1.30 | 10 Ω - 1 MΩ | ± 2 % standard, ± 1 % and ± 5 % available | M8340101 M 2201 G A | | |
| | MDM14 03 | 1.40 | 10 Ω - 1 MΩ | | M8340102 M 4701 G B | | |
| | MDM16 01 | 1.50 | 10 Ω - 1 MΩ | | 1 Detail specification number M8340101 = 14-Pin M8340102 = 16-Pin 2. Characteristic M = ± 300 ppm/°C K = ± 100 ppm/°C 3. Resistance value Values per MIL-PRF-83401 codes Contact factory for stocked values 4. Tolerance 5. Schematic A = 01 B = 03 J = 05 | | |
| | MDM16 03 | 1.60 | 10 Ω - 1 MΩ | | | M8340101 K A001* G J | |
| | MDM16 05 MDM14 05 | 1.40 1.20 | J (05) Schematic | | | 1 2 3 4 5 | |
| | | | Code | | | R1 | R2 |
| | | | A001 | | | 82 | 130 |
| | | | A002 | | | 120 | 200 |
| | | | A003 | | | 130 | 210 |
| | | | A004 | | | 160 | 260 |
| | | | A005 | | | 180 | 240 |
| | | | A006 | | | 180 | 390 |
| | | | A007 | | | 220 | 270 |
| | | | A008 | | | 220 | 330 |
| | | | A009 | | | 330 | 390 |
| | | | A010 | | | 330 | 470 |
| | | | A011 | | | 330 | 680 |
| | | | A012 | | | 1.5 K | 3.3 K |
| | | | A013 | | | 3 K | 6.2 K |
| A014 | | | 180 | 270 | | | |
| A015 | | | 270 | 270 | | | |
| A016 | 560 | 560 | | | | | |
| A017 | 560 | 1.2 K | | | | | |
| A018 | 620 | 2.7 K | | | | | |

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Resistors - Wide Range of Power Ratings

| Model | Product | Wattage Rating | Resistance Range | Tolerance | Part Number Definition | |
|------------------------------------|-----------|------------------|------------------|---|-------------------------------------|------------------------------------|
| Non-Established Reliability | | | | | | |
| MIL-PRF-83401 | MSM06A 01 | 0.60 | 10 Ω - 1 MΩ | ± 2 % standard, ± 1 % and ± 5 % available | M8340107 K 1003 G C | |
| | MSM08A 01 | 0.84 | 10 Ω - 1 MΩ | | M8340104 K 1003 G G | |
| | MSM10A 01 | 1.08 | 10 Ω - 1 MΩ | | M8340107 K A001* G H | |
| | MSM06A 03 | 0.36 | 10 Ω - 1 MΩ | | 1 2 3 4 5 | |
| | MSM08A 03 | 0.48 | 10 Ω - 1 MΩ | | 1. Detail specification number | |
| | MSM10A 03 | 0.60 | 10 Ω - 1 MΩ | | "A" Profile "C" Profile | |
| | MSM06C 01 | 1.00 | 10 Ω - 1 MΩ | | M8340107 = 6-Pin M8340104 = 6-Pin | |
| | MSM08C 01 | 1.40 | 10 Ω - 1 MΩ | | M8340108 = 8-Pin M8340105 = 8-Pin | |
| | MSM10C 01 | 1.80 | 10 Ω - 1 MΩ | | M8340109 = 10-Pin M8340106 = 10-Pin | |
| | MSM06C 03 | 0.60 | 10 Ω - 1 MΩ | | M8340124 = 10-Pin, long lead | |
| | MSM08C 03 | 0.80 | 10 Ω - 1 MΩ | | 2. Characteristic | |
| | MSM10C 03 | 1.00 | 10 Ω - 1 MΩ | | M = ± 300 ppm/°C | |
| | | | | | H (05) Schematic | K = ± 100 ppm/°C |
| | | | | | Code R1 R2 | 3. Resistance Value |
| | MSM06A 05 | 0.60 | A001 82 130 | | * Values per MIL-PRF-83401 codes | Contact factory for stocked values |
| | MSM08A 05 | 0.84 | A002 120 200 | | 4. Tolerance | |
| | MSM10A 05 | 1.08 | A003 130 210 | | 5. Schematic | |
| | MSM06C 05 | 0.88 | A004 160 260 | | C = 01 | |
| | MSM08C 05 | 1.32 | A005 180 240 | | G = 03 | |
| | MSM10C 05 | 1.80 | A006 180 390 | | H = 05 | |
| | | A007 220 270 | | | | |
| | | A008 220 330 | | | | |
| | | A009 330 390 | | | | |
| | | A010 330 470 | | | | |
| | | A011 330 680 | | | | |
| | | A012 1.5 K 3.3 K | | | | |
| | | A013 3 K 6.2 K | | | | |
| | | A014 180 270 | | | | |
| | | A015 270 270 | | | | |
| | | A016 560 560 | | | | |
| | | A017 560 1.2 K | | | | |
| | | A018 620 2.7 K | | | | |

| Model | Schematic | Characteristic | Resistance Range | Tolerance | Schematic | Part Number Definition |
|------------------------------|---------------------|----------------------------------|------------------|---------------|-----------|------------------------|
| M83401 C83401 | 07 = 6 pin (RZ070) | H = 50 ppm/°C | 100 to 100 K | B, D, F, G, J | C, G | M8340107H10R0BCUFV |
| | 08 = 8 pin (RZ080) | V = 50 ppm/°C/ 5 ppm/°C track | 250 to 100 K | B, D, F, G, J | | |
| | | | 250 to 200 K | F, G, J | | |
| | 09 = 10 pin (RZ090) | R = 50 ppm/°C | 250 to 100 K | B, D, F, G, J | | |
| | | | 250 to 200 K | F, G, J | | |
| | 21 = 6 pin (RZ210) | K = 100 ppm/°C | 100 to 100 K | B, D, F, G, J | | |
| | 22 = 8 pin (RZ220) | | | | | |
| 23 = 10 pin (RZ0230) | M = 300 ppm/°C | | | | | |

1. Detail specification number
 M83401 Single inline resistor low profile
 C83401 Single inline resistor low profile non burn in screened network
 2. Case Size/Pin Count
 07 = 6 pin (RZ070)
 08 = 8 pin (RZ080)
 09 = 10 pin (RZ090)
 21 = 6 pin (RZ210)
 22 = 8 pin (RZ220)
 23 = 10 pin (RZ230)
 Case sizes 21, 22, 23 have no internal solder.
 3. Characteristic: H, V, R, K, M
 4. Resistance: Values per MIL-PRF-83401 codes
 5. Tolerance: B=0.1 %, D=0.5 %, F=1 %, G=2 %, J=5 %
 6. Schematic: C=Pin 1 common, G=isolated

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Resistors - Wide Range of Power Ratings

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