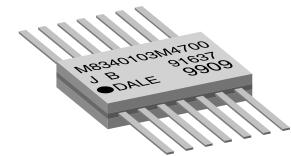


Thick Film Resistor Networks, Military, MIL-PRF-83401 Qualified, Type RZ030, Flat Pack



FEATURES

- Isolated, bussed and dual terminator schematics available
- Hot-solder dipped leads
- MIL-PRF-83401 qualified
- Thick film resistive elements
- TCR available in "K" (± 100 ppm/°C) or "M" (± 300 ppm/°C) characteristic
- 100 % screen tested per group A, subgroup 1 of MIL-PRF-83401
- 0.065" (1.65 mm) height for high density packaging

STANDARD	TANDARD ELECTRICAL SPECIFICATIONS									
VISHAY DALE MODEL/ PIN NO.	MIL STYLE	MIL SPEC. SHEET	SCHEMATIC	POWER RATING ELEMENT P _{70°C} W	POWER RATING PACKAGE P _{70°C} W	RESISTANCE RANGE Ω	TOLERANCE ⁽²⁾ ± %	TEMPERATURE COEFFICIENT ⁽¹⁾ (-55 °C to +125 °C) ± ppm/°C	WEIGHT g	
			11 (A)	0.050	0.350	10 to 1M		100, 300	0.4	
DFM14	RZ030	03	12 (B)	0.025	0.325	10 to 1M	1, 2, 5			
			15 (J)	0.015	0.350	Consult factory				

Notes

• Consult factory for stocked values.

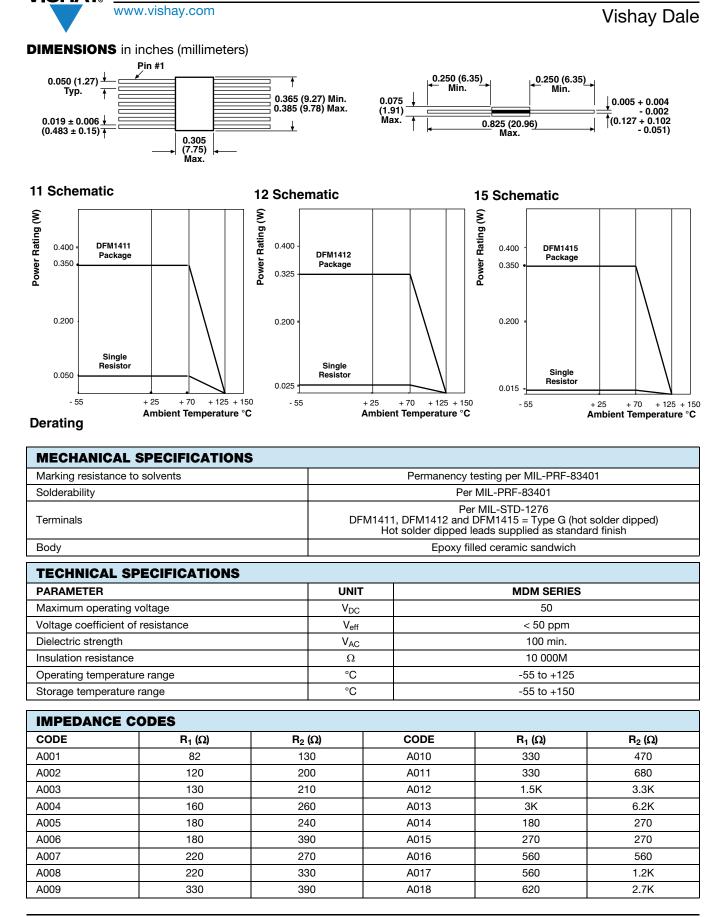
(1) $K = \pm 100 \text{ ppm/°C}; M = \pm 300 \text{ ppm/°C}.$

 $^{(2)}$ \pm 2 % standard, \pm 1 % and \pm 5 % available.

GLOBAL PART NUMBER INFORMATION							
New Global Part Numbering: M8340103M6801GAD05 (preferred part numbering format)							
Μ	M 8 3 4 0 1 0		3 M 6 8 0 1 G A D 0 5				
MIL STYLE	SPEC SHEET	CHARACTERISTIC	RESISTANCE VALUE	TOLERANCE	SCHEMATIC	PACKAGING	
M83401	03	K = 100 ppm M = 300 ppm	$\begin{array}{l} 3 \mbox{ digit significant} \\ \mbox{figure, followed by} \\ a \mbox{ multiplier} \\ \mbox{10R0} = 10 \ \Omega \\ \mbox{3302} = 33 \ k\Omega \\ \mbox{1004} = 1 \ M\Omega \end{array}$	$F = \pm 1 \%$ $G = \pm 2 \%$ $J = \pm 5 \%$	A = Isolated B = Bussed	D05 = Tin/lead, tube DSL = Tin/lead, tube, single lot date code	
Historical Pa	Historical Part Number Example: M8340103M6801GA (will continue to be accepted)						
M83401	03	М	6801	G	Α	D05	
MIL STYLE	SPEC SHEET	CHARACTERISTIC	RESISTANCE VALUE	TOLERANCE	SCHEMATIC	PACKAGING	
New Global Part Numbering: M8340103KA001GJD05 (preferred part numbering format)							
M	8 3 4	0 1 0	3 K A	0 0	1 G J D	0 5	
MIL STYLE	SPEC SHEET	CHARACTERISTIC	RESISTANCE VALUE	TOLERANCE	SCHEMATIC	PACKAGING	
M83401	03	K = 100 ppm M = 300 ppm	Per Std. MIL. Spec. (see Impedance Codes table)	$ F = \pm 1 \% G = \pm 2 \% J = \pm 5 \% $	J = Dual terminator	D05 = Tin/lead, tube DSL = Tin/lead, tube, single lot date code	
Historical Part Number Example: M8340103KA001GJ (will continue to be accepted)							
M83401	03	М	A001	G	J	D05	
MIL STYLE	SPEC SHEET	CHARACTERISTIC	RESISTANCE VALUE	TOLERANCE	SCHEMATIC	PACKAGING	
Note		nooleoning voter to th		twork Deckosing	document (www.visbay.c		

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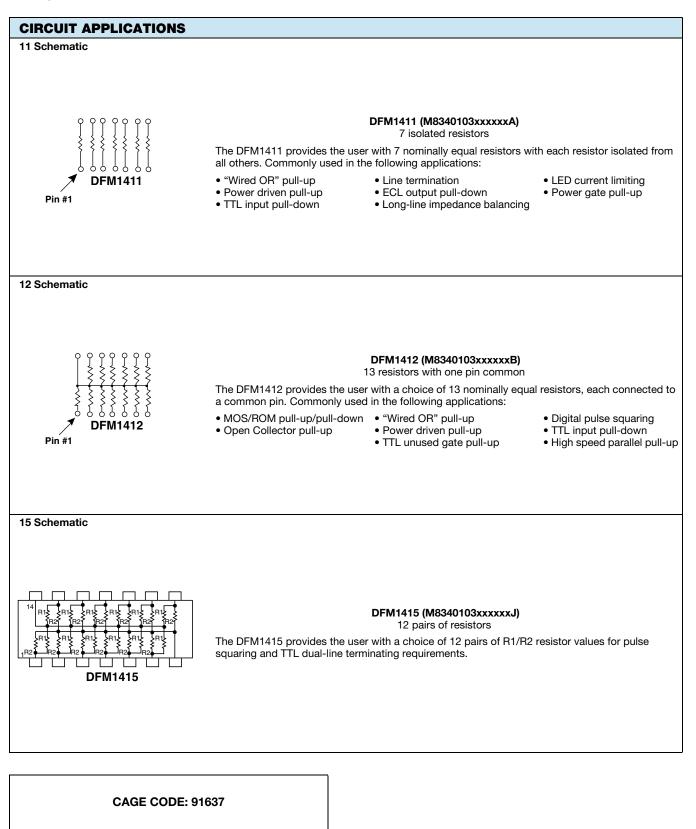
DFM (Military M83401/03)

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DFM (Military M83401/03)

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3
For technical questions, contact: <u>ff2aresistors@vishay.com</u>

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PERFORMANCE	RFORMANCE			
TEST	CONDITIONS	MAX. ∆R (TYPICAL TEST LOTS)		
Power conditioning	1.5 x rated power, applied 1.5 h "ON" and 0.5 h "OFF" for 100 h \pm 4 h at +25 °C ambient temperature	± 0.50 % ∆R		
Thermal shock	5 cycles between -65 °C and +125 °C	± 0.50 % Δ <i>R</i>		
Short time overload	2.5 x rated working voltage for 5 s	± 0.25 % ∆ <i>R</i> (char. K) ± 0.50 % ∆ <i>R</i> (char. M)		
Low temperature operation	45 min at full rated working voltage at -65 °C	± 0.25 % ∆ <i>R</i> (char. K) ± 0.50 % ∆ <i>R</i> (char. M)		
Moisture resistance	240 h with humidity ranging from 80 % RH to 98 % RH	± 0.50 % ∆R		
Resistance to soldering heat	Leads immersed in +260 °C solder to within 1/16" of body for 10 s	± 0.25 % Δ R		
Shock	Total of 18 shocks at 100 g's	± 0.25 % Δ R		
Vibration	12 h at maximum of 20 g 's between 10 Hz and 2000 Hz	± 0.25 % Δ R		
Load life	1000 h at +70 °C, rated power applied 1.5 h "ON", 0.5 h "OFF" for full 1000 h period	± 0.50 % ∆ <i>R</i> (char. K) ± 2.0 % ∆ <i>R</i> (char. M)		
Terminal strength	1.5 pound pull for 30 s	± 0.25 % ∆R		
Insulation resistance	10 000 MΩ (minimum)	-		
Dielectric withstanding voltage	No evidence of arcing or damage (200 V _{RMS} for 1 min)	-		

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