Vishay Dale



Thick Film, Dual-in-Line Resistor Networks



FEATURES

- 14,16 or 20 terminal package
- Isolated, bussed or TTL-terminator circuits
- Molded case construction
- Thick film resistive elements
- Reflow solderable
- Compatible with automatic surface mounting equipment

- Reduces total assembly costs
 For wave flow soldering contact factory
 Lead (Pb)-free version is RoHS compliant





COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS										
GLOBAL	ELEMENT P70 °C	PACKAGE POWER RATING P _{70 °C} W			CIRCUIT	LIMITING ELEMENT	TEMPERATURE COEFFICIENT ¹⁾	TOL.	RESISTANCE RANGE	E-SERIES
MODEL	<i>P</i> _{70 °C} W	14	16	20		VOLTAGE MAX. V≅	ppm/°C	%	Ω	
SOMC	0.08 0.16 0.08	1.05 1.125 1.05	1.20 1.28 1.20	1.52 1.60 1.52	01 03 05	50	100	1, 2, 5 1, 2, 5 1, 2, 5	10R - 1M	24

Notes

- 1. Temperature Range: 55 °C to + 125 °C
 Power rating depends on the max, temperature at the solder point, the component placement density and the substrate material
- Jumper: Zero-Ohm-Resistor on request (100 m Ω)
- Packaging: according to EIA; see appropriate catalog or web page

TECHNICAL SPECIFICATIONS						
PARAMETER	UNIT	01 CIRCUIT	03 CIRCUIT	05 CIRCUIT		
Rated Dissipation at 70 °C per Element	W	0.08	0.16	0.08		
Limiting Element Voltage ¹⁾	V≅	50				
Voltage Coefficient	ppm/V	< 50				
Insulation Voltage (1 min)	V _{dc/ac} peak	200				
Category Temperature Range	°C	- 55/+ 150				
Insulation Resistance	Ω	> 10 ¹⁰				
TC Tracking (- 55 °C to + 125 °C)	ppm/°C	50				

Note: 1.Rated voltage: \sqrt{PxR}

Note: Thated voltage: V/X/I							
GLOBAL PART NUMBER INFORMATION							
New Global Part Numbering: SOMC16011K00GDC (preferred part numbering format)							
S O M C 1 6 0 1 1 K 0 0 G D C							
GLOBAL MODEL PIN COUNT SCHEMATIC RESISTANCE TOLERANCE PACKAGING SPECIAL VALUE CODE							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$							
Historical Part Number example: SOMC1601102G (will continue to be accepted)							
SOMC 16 01 102 G D02							
HISTORICAL MODEL PIN COUNT SCHEMATIC RESISTANCE VALUE TOLERANCE CODE PACKAGING							
New Global Part Numbering: SOMC2005500BGRZ (preferred part numbering format) S O M C 2 0 0 5 5 0 0 B G R Z							
GLOBAL MODEL PIN COUNT SCHEMATIC RESISTANCE TOLERANCE PACKAGING SPECIAL VALUE							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$							
Historical Part Number example: SOMC2005820131G (will continue to be accepted)							
SOMC 20 05 810 131 G R61							
HISTORICAL MODEL PIN COUNT SCHEMATIC RESISTANCE VALUE 1 RESISTANCE CODE PACKAGING							

Pb containing terminations are not RoHS compliant, exemptions may apply

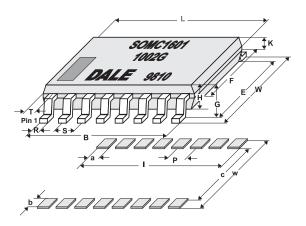
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DIMENSIONS



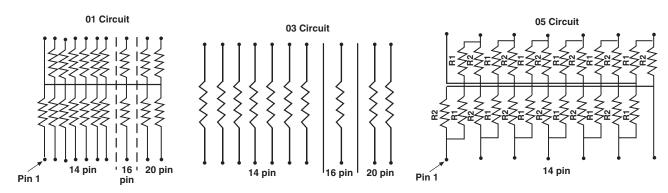
SOLDER PAD DIMENSIONS in inches [millimeters]							
	a b c l p w				w		
WAVE	0.64	1.91	5.34	9.53	1.27	9.15	
REFLOW	0.64	1.91	5.34	9.53	1.27	9.15	

The dimension shown are for a 16 pin part. For parts with different pin numbers use the same pitch and add or subtract pads as required.

Note: Maximum solder reflow temperature + 255 °C

	DIMENSIONS [in millimeters]										
PIN NO#	L	W	В	E	F	G	Н	K	R	s	T
14	9.91	7.62	7.62	6.20	5.59	2.16	2.03	0.914	0.457	1.27	1.14
16	11.18	7.62	8.89	6.20	5.59	2.16	2.03	0.914	0.457	1.27	1.14
20	13.72	7.62	11.43	6.20	5.59	2.16	2.03	0.914	0.457	1.27	1.14
Tol	± 0.254	± 0.381	± 0.254	± 0.381	± 0.127	± 0.127	± 0.127			± 0.254	

CIRCUIT SCHEMATICS



IMPEDANCE CODES							
CODE	R ₁ (Ω)	$R_2(\Omega)$	CODE	R ₁ (Ω)	$R_2(\Omega)$		
500B	82	130	141A	270	270		
750B	120	200	181A	330	390		
800C	130	210	191A	330	470		
990A	160	260	221B	330	680		
101C	180	240	281B	560	560		
111C	180	270	381B	560	1.2K		
121B	180	390	501C	620	2.7K		
121C	220	270	102A	1.5K	3.3K		
131A	220	330	202B	3K	6.2K		

PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST RESULTS			
Power Conditioning	MIL STD-202	± 0.5 %			
Load Life at 70 °C	MIL STD-202	± 0.5 %			
Short Time Overload	MIL STD-202	± 0.25 %			
Thermal Shock	MIL STD-202	± 0.5 %			
Moisure Resistance	MIL STD-202	± 0.5 %			
Resistance to Soldering Heat	MIL STD-202	± 0.25 %			
Low Temperature Operation	MIL STD-202	± 0.25 %			
Vibration	MIL STD-202	± 0.25 %			
Shock	MIL STD-202	± 0.25 %			
Terminal Strength	MIL STD-202	± 0.25 %			

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