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 ٠



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

STAND	STANDARD ELECTRICAL SPECIFICATIONS									
	ELEMENT	PACKAG	PACKAGE POWER RATING <i>P</i> 70 °C W		CIRCUIT		TEMPERATURE COEFFICIENT ¹⁾	TOL.	RESISTANCE RANGE	E-SERIES
MODEL	<i>Р</i> _{70 °} с W	14	16	20		$\underset{V\cong}{VOLTAGE MAX}.$	ppm/°C	70	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

Jumper: Zero-Ohm-Resistor on request (100 m Ω)

• Packaging: according to EIA; see appropriate catalog or web page

TECHNICAL SPECIFICATIONS						
UNIT	01 CIRCUIT	03 CIRCUIT	05 CIRCUIT			
W	0.08	0.16	0.08			
V≅		50				
ppm/V		< 50				
V _{dc/ac} peak		200				
°C		- 55/+ 150				
Ω		> 10 ¹⁰				
ppm/°C		50				
-	UNIT W V≘ ppm/V V _{dc/ac} peak °C Ω	UNIT 01 CIRCUIT W 0.08 V≅ 0.08 ppm/V 0.08 Vdc/ac peak 0.02 °C 0.02 Ω 0.02	$\begin{array}{c c c c c c c c } & 01 \ CIRCUIT & 03 \ CIRCUIT \\ \hline W & 0.08 & 0.16 \\ \hline V_{\cong} & 50 \\ \hline ppm/V & <50 \\ \hline V_{dc/ac} \ peak & 200 \\ \ ^{\circ}C & -55/+ \ 150 \\ \hline \Omega & > 10^{10} \\ \hline \end{array}$			

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

GLOBAL PAR	GLOBAL PART NUMBER INFORMATION						
New Global Part Nu	umbering: SOMC16011K00G	DC (preferred part nu	Imbering format)				
S	0 M C 1 6	0 1 1 K	00G				
GLOBAL MODEL		VALUE	TOLERANCE	PACKAGING	SPECIAL		
SOMC	14 01 = Busser 16 03 = Isolate 20 00 = Specia	d K = Thousand M = Million	J = ± 5 %	EJ = Lead (Pb)-free, Tube A = Lead (Pb)-free, Tape & Reel DC = Tin/Lead, Tube	Blank = Standard (Dash Number) (up to 3 digits)		
			S = Special	RZ = Tin/Lead, Tape & Reel	From 1-999 as applicable		
Historical Part Nun	nber example: SOMC160110	2G (will continue to b	be accepted)				
SOMC	16	01	102	G	D02		
HISTORICAL MOD	EL PIN COUNT	SCHEMATIC	RESISTANCE VAL	UE TOLERANCE CODE	PACKAGING		
New Global Part Nu	Imbering: SOMC2005500BG O M C 2	RZ (preferred part nu	Imbering format) 0 B G				
GLOBAL MODEL	PIN COUNT SCHEMATI	C RESISTANCE VALUE	TOLERANCE	PACKAGING	SPECIAL		
SOMC	14 05 = Dual 16 Terminator 20	3 digit Impedence code, followed by		EJ = Lead (Pb)-free, Tube A = Lead (Pb)-free, Tape & Reel	Blank = Standard (Dash Number)		
	20	Alpha modifier (see Impedence		DC = Tin/Lead, Tube RZ = Tin/Lead, Tape & Reel	(up to 3 digits) From 1-999 as applicable		
Historical Part Nun	ber example: SOMC200582	table 0131G (will continue	to be accepted)	Tape & Reel			
SOMC		05 810		G	R61		
HISTORICAL MOD	EL PIN COUNT SCHE	EMATIC RESISTA VALUE			PACKAGING		
* Pb containing termi	nations are not RoHS compli	ant, exemptions may a	apply				



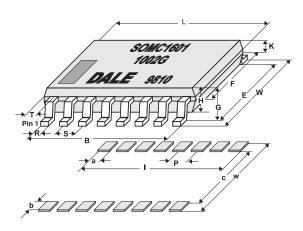
Temperature Range: - 55 °C to + 125 °C
 Power rating depends on the max, temperature at the solder point, the component placement density and the substrate material



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DIMENSIONS

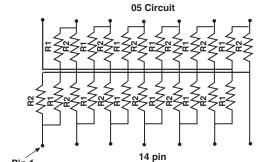


SOLDER PAD DIMENSIONS in inches [millimeters]							
	а	b	с	I	р	w	
WAVE	0.64	1.91	5.34	9.53	1.27	9.15	
REFLOW	0.64	1.91	5.34	9.53	1.27	9.15	

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	т
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	



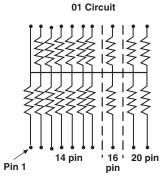
IMPEDANCE CODES							
CODE	R ₁ (Ω)	R₂ (Ω)	CODE	R ₁ (Ω)	R₂ (Ω)		
500B	82	130	141A	270	270		
750B	120	200	181A	330	390		
800C	130	210	191A	330	470		
990A	160	260	221B	330	680		
101C	180	240	281B	560	560		
111C	180	270	381B	560	1.2K		
121B	180	390	501C	620	2.7K		
121C	220	270	102A	1.5K	3.3K		
131A	220	330	202B	3K	6.2K		

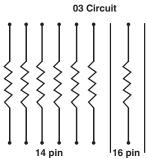
PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST RESULTS			
Power Conditioning	MIL STD-202	± 0.5 %			
Load Life at 70 °C	MIL STD-202	± 0.5 %			
Short Time Overload	MIL STD-202	± 0.25 %			
Thermal Shock	MIL STD-202	± 0.5 %			
Moisure Resistance	MIL STD-202	± 0.5 %			
Resistance to Soldering Heat	MIL STD-202	± 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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For technical questions, contact: ff2aresistors@vishay.com

CIRCUIT SCHEMATICS





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20 pin 16 pin

Pin 1



Vishay

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