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 MODEL	ELEMENT P ₇₀ °C W	PACKAGE POWER RATING P ₇₀ °C W		CIRCUIT	LIMITING ELEMENT VOLTAGE MAX.	TEMPERATURE COEFFICIENT ¹⁾	TOL.	RESISTANCE RANGE	E-SERIES	
	VV	14	16	20		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

- 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 mΩ)
 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 2)	V ≅	50					
Voltage Coefficient	ppm/V	< 50					
Insulation Voltage (1min)	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				

²⁾Rated voltage: √PxR

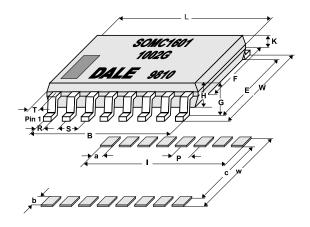
GLOBAL PAR	GLOBAL PART NUMBER INFORMATION							
New Global Part Numbering: SOMC16011K00GDC (preferred part numbering format)								
SOMC16011K00GDC								
GLOBAL MODEL	PIN COUNT SCHEMATIC	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING	SPECIAL			
SOMC	14 16 03 = Isolated 00 = Special	\mathbf{R} = Decimal \mathbf{K} = Thousand \mathbf{M} = Million 10R0 = 10 Ω 680 \mathbf{K} = 680 \mathbf{K} Ω 1M00 = 1.0 MΩ	$F = \pm 1 \%$ $G = \pm 2 \%$ $J = \pm 5 \%$ S = Special	EJ = Lead Free, Tube EA = Lead Free, Tape & Reel DC = Tin/Lead, Tube RZ = Tin/Lead, Tape & Reel	Blank = Standard (Dash Number) (up to 3 digits) From 1-999 as applicable			
Historical Part Num	ber exa <u>mple: SOMC16</u> 011020	(will continue to	oe ac <u>cepted)</u>	_				
SOMC	16	01	102	G	D02			
HISTORICAL MOD	EL PIN COUNT	SCHEMATIC	RESISTANCE \	/ALUE TOLERANCE CODE	PACKAGING			
New Global Part Nu	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 VALUE	TOLERANCE CODE	PACKAGING	SPECIAL			
SOMC 14 16 20 3 digit Impedence code, followed by Alpha modifier (see Impedence table) 3 digit Impedence code, followed by Alpha modifier (see Impedence table F = ± 1 % G = ± 2 % J = ± 5 % EJ = Lead Free, Tube EA = Lead Free, Tape & Reel DC = Tin/Lead, Tube RZ = Tin/Lead, Tape & Reel Blank = Standard (Dash Number) (up to 3 digits) From 1-999 as applicable								
	Historical Part Number example: SOMC2005820131G (will continue to be accepted)							
SOMC	20 05	810	1:	31 G	R61			
HISTORICAL MODE	PIN COUNT SCHEM	IATIC RESISTA VALUE		TANCE TOLERANCE CODE	PACKAGING			

^{*} Pb containing terminations are not RoHS compliant, exemptions may apply



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DIMENSIONS



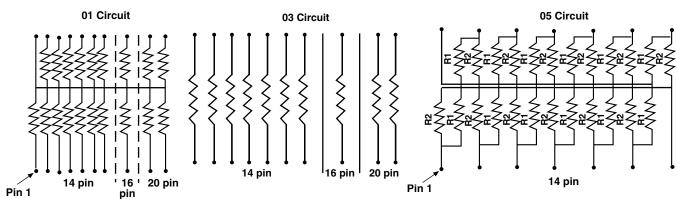
SOLDER PAD DIMENSIONS in inches [millimeters]							
	a b c l p w						
WAVE	0.64	1.91	5.34	9.53	1.27	9.15	
REFLOW	0.64	1.91	5.34	9.53	1.27	9.15	

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



IPEDANCE 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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