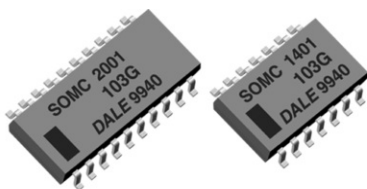


Thick Film Resistor Networks, Dual-In-Line, Medium Body, Small Outline, Molded DIP, Surface Mount



FEATURES

- Isolated, bussed and dual terminator schematics available
- 14, 16 or 20 terminal package
- 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
- Compliant to RoHS directive 2002/95/EC



Available


RoHS*
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	POWER RATING				CIRCUIT	MAXIMUM WORKING VOLTAGE ⁽²⁾ V _{DC}	TEMPERATURE COEFFICIENT ⁽¹⁾ ± ppm/°C	TOLERANCE ⁽³⁾ ± %	RESISTANCE RANGE Ω	E-SERIES
	ELEMENT P _{70 °C} W	PACKAGE P _{70 °C} W								
		14	16	20						
SOMC	0.08	1.05	1.20	1.52	01	50	100	1, 2, 5	10 to 1M	24
	0.16	1.125	1.28	1.60	03					
	0.08	1.05	1.20	1.52	05					

Notes

- DSCC has created series of drawings to support the need for a surface mount gull wing resistor network product. Vishay Dale is listed as a resource on this drawing as follows:

DSCC DRAWING NUMBER	VISHAY DALE MODEL	CIRCUIT	POWER RATING		RESISTANCE RANGE Ω	TOLERANCE ± %	TEMPERATURE COEFFICIENT (0 °C to 70 °C) ± ppm/°C	MAXIMUM WORKING VOLTAGE ⁽²⁾ V _{DC}
			ELEMENT P _{70 °C} W	PACKAGE P _{70 °C} W				
87012	SOMC1601..16	01 (B)	0.08	1.20	10 to 2.2M	1, 2, 5	100, 300	50
	SOMC1603..17	03 (A)	0.16					
	SOMC1605..48	05 (J)	0.08					
87013	SOMC1401..6	01 (B)	0.08	1.00	10 to 2.2M	1, 2, 5	100, 300	50
	SOMC1403..13	03 (A)	0.16					
	SOMC1405..22	05 (J)	0.08					

These drawings can be viewed at: www.dscclia.mil/Programs/milSpec/ListDwgs.asp?DocType=DSCCdwg.

- Power rating depends on the max. temperature at the solder point, the component placement density and the substrate material.
- Jumper: 0 Ω-resistor on request (100 mΩ).
- Packaging: According to EIA; see appropriate catalog or web page.

⁽¹⁾ Temperature range: - 55 °C to + 125 °C.

⁽²⁾ Continuous working voltage shall be $\sqrt{P \times R}$ or maximum working voltage, whichever is less.

⁽³⁾ ± 2 % standard, ± 1 % and ± 5 % available.

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 ⁽⁴⁾	V _{DC}	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

⁽⁴⁾ Rated voltage: $\sqrt{P \times R}$.

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

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 VALUE	TOLERANCE CODE	PACKAGING			SPECIAL									
SOMC	14 16 20	01 = Bussed 03 = Isolated 00 = Special	R = Ω K = k Ω M = M Ω 10R0 = 10 Ω 680K = 680 k Ω 1M00 = 1.0 M Ω	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ S = Special	EJ = Lead (Pb)-free, tube EA = Lead (Pb)-free, tape and reel DC = Tin/lead, tube RZ = Tin/lead, tape and reel			Blank = Standard (Dash number) (Up to 3 digits) From 1 to 999 as applicable									

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 VALUE	TOLERANCE CODE	PACKAGING			SPECIAL									
SOMC	14 16 20	05 = Dual terminator	3 digit impedance code, followed by alpha modifier (see Impedance table)	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$	EJ = Lead (Pb)-free, tube EA = Lead (Pb)-free, tape and reel DC = Tin/lead, tube RZ = Tin/lead, tape and reel			Blank = Standard (Dash number) Up to 3 digits From 1 to 999 as applicable									

Historical Part Number Example: SOMC2005820131G (will continue to be accepted)

SOMC	20	05	820	131	G	R61
HISTORICAL MODEL	PIN COUNT	SCHEMATIC	RESISTANCE VALUE 1	RESISTANCE VALUE 2	TOLERANCE CODE	PACKAGING

CIRCUIT SCHEMATICS



DIMENSIONS



SOLDER PAD DIMENSIONS in millimeters

	a	b	c	I	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

Notes

- 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.
- Maximum solder reflow temperature + 255 °C.

DIMENSIONS in millimeters

PIN NO#	L	W	B	E	F	G	H	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	

IMPEDANCE CODES

CODE	R ₁ (Ω)	R ₂ (Ω)	CODE	R ₁ (Ω)	R ₂ (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 (TYPICAL TEST LOTS)
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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