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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

STANDARD ELECTRICAL SPECIFICATIONS										
	P	OWER R	ATING							
GLOBAL MODEL	ELEMENT P _{70 °C} W	PACKAGE P _{70 °C} W		CIRCUIT	MAXIMUM WORKING VOLTAGE ⁽²⁾ V _{DC}		TOLERANCE ⁽³⁾ ± %	RESISTANCE RANGE Ω	E-SERIES	
	vv	14	16	20		• DC				
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	10 to 1M	24

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			POWER	RATING	RESISTANCE		TEMPERATURE	MAXIMUM	
DRAWING NUMBER	VISHAY DALE MODEL	CIRCUIT	ELEMENT <i>P</i> _{70 °C} W	PACKAGE P _{70 °C} W	RANGE Ω	TOLERANCE ± %	COEFFICIENT (0 °C to 70 °C) ± ppm/°C	WORKING VOLTAGE ⁽²⁾ V _{DC}	
87012	SOMC160116 SOMC160317 SOMC160548	01 (B) 03 (A) 05 (J)	0.08 0.16 0.08	1.20	10 to 2.2M	1, 2, 5	100, 300	50	
87013	SOMC14016 SOMC140313 SOMC140522	01 (B) 03 (A) 05 (J)	0.08 0.16 0.08	1.00	10 to 2.2M	1, 2, 5	100, 300	50	

These drawings can be viewed at: www.dscc.dla.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 m Ω).

• 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

IECHNICAL 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



COMPLIANT

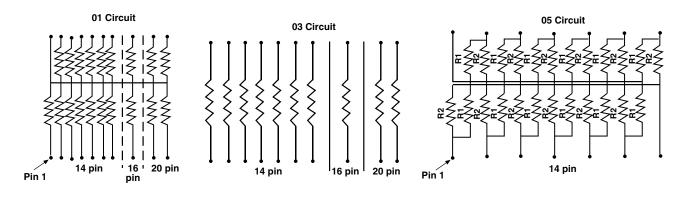


Vishay Dale

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

GLOBA	GLOBAL PART NUMBER INFORMATION											
New Globa	I Part N	lumbe	ring: SOMC1	6011K0	OGDC	(prefe	erred pa	art number	ing f	ormat)		
S	0	М	C 1	6	0	1	1	κο)	0 G [
GLOBAL MODEL	PIN C	OUNT	SCHEM	ATIC		SISTA VALUI		TOLERAN		PAC	KAGING	SPECIAL
SOMC	1	4 6 20	01 = Bu: 03 = Iso 00 = Sp	ated	H N 10F 680K	R = Ω K = kΩ I = M R 0 = 1 K = 68 0 = 1.4	Ω Ω 0 Ω 80 kΩ	F = ± 1 G = ± 2 J = ± 5 S = Spec	% %	EA = Lead (Pt DC = 1	d (Pb)-free, tube b)-free, tape and r in/lead, tube ad, tape and reel	Blank = Standard (Dash number) (Up to 3 digits) From 1 to 999 as applicable
		mber E	Example: SO	MC160	1102G (•	ontinu	e to be acc	epte	d)		
SOM	С		16			01			102		G	D02
HISTOR MODI			PIN COUN	Г	SCI	HEMA	ATIC		ISTA /ALU		OLERANCE CODE	PACKAGING
New Globa	I Part N	lumbe	ring: SOMC2	005500	BGRZ ((prefe	erred pa	rt numberi	ing fo	ormat)		
S	0	М	C 2	0	0	5	5	0 0)	BGF	8 Z	
GLOBAL		I	//		BES	SISTA	NCE	TOLERAN			<u>C'</u>	
MODEL	PIN C	OUNT	SCHEM	ATIC		VALU		CODE		PAC	CKAGING	SPECIAL
SOMC 14 16 20 05 = Dual terminator		3 digit impedance code, followed by alpha modifier (see Impedance table)		$ \begin{array}{ c c c c } \hline F = \pm 1 \ \% \\ \hline G = \pm 2 \ \% \\ \hline J = \pm 5 \ \% \end{array} \end{array} \begin{array}{ c c c } \hline EJ = Lead (Pb) \ free, tube \\ \hline EA = Lead (Pb) \ free, tape and the exact that the exact the exact that the exact that the exact that the exact that the exact the exac$		Blank = Standard (Dash number) Up to 3 digits From 1 to 999 as applicable						
-		mber E	Example: SO	MC200	582013 ⁻	1G (w	ill cont	inue to be	acce	pted)		
SOMC			20		05			820		131	G	R61
HISTORIC		PIN	I COUNT	SCH	IEMATI	С	_	STANCE LUE 1	F	RESISTANCE VALUE 2	TOLERANCE CODE	PACKAGING

CIRCUIT SCHEMATICS

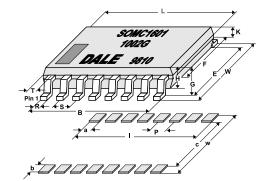




SOMC

Vishay Dale

DIMENSIONS



SOLDER PAD DIMENSIONS in 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		

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.

DIMEN	DIMENSIONS in millimeters										
PIN NO#	L	W	В	E	F	G	Н	К	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)	R ₂ (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	ЗK	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 %					



Vishay

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