## SOGC 01, 03, 05

Vishay Dale

### Thick Film Resistor Networks, Dual-In-Line Small Outline Molded Dip, 01, 03, 05 Schematics

## SOGC 2001 104G DALE 0015 SOGC 1601 104G DALE 0015

• 0.110" [2.79mm] maximum seated height

- Rugged, molded case construction
- 0.050" [1.27mm] lead spacing

**FEATURES** 

- Reduces total assembly costs
- Compatible with automatic surface mounting equipment
- Uniform performance characteristics
- Meets EIA PDP 100, SOGN-0003 outline dimensions
- Available in tube pack or tape and reel pack

STANDARD ELECTRICAL SPECIFICATIONS							
GLOBAL MODEL	SCHEMATIC	RESISTOR CIRCUIT W @ 70°C	PACKAGE POWER W @ 70°C	TOLERANCE ± %	RESISTANCE RANGE Ω	OPERATING VOLTAGE VDC	TEMPERATURE COEFFICIENT ppm/°C
SOGC16	01	0.1	1.6	2 (1, 5*)	10-1M0	50 max	100
	03	0.19	1.6	2 (1, 5*)	10-1M0	50 max	100
	05	0.1	1.6	2 (5*)	10-1M0	50 max	100
SOGC20	01	0.1	2.0	2 (1, 5*)	10-1M0	50 max	100
	03	0.19	2.0	2 (1, 5*)	10-1M0	50 max	100
	05	0.1	2.0	2 (5*)	10-1M0	50 max	100

\*Tolerances in brackets available upon request.

• 100 milliohm maximum on zero ohm jumper

GLOBAL F	GLOBAL PART NUMBER INFORMATION									
New Global Pa	art Numbering	: SOGC200	310K0GDC	(preferre	ed part nu	mbering f	ormat)			
GLOBAL MODEL	PIN COUN	SCHE	EMATIC			TOLER		P	ACKAGING	SPECIAL
SOGC	16 20	03 =	Bussed Isolated Special	K=Th M= 10R0	ecimal ousand Million = 10Ω	F=± G=± J=± S=Sp	2% 5% becial	EA=Lead DC=	.ead Free,Tube (Pb)-free,Tape & Ree Tin/Lead,Tube ∟ead,Tape & Reel	(up to 3 digits) From <b>1-999</b> as
					= 680KΩ = 1.0MΩ	<b>Z</b> = 0Ω J	Jumper			applicable
Historical Par	Number exa	nple: SOG	C2003103G	(will con	tinue to b	e accepte	d)			
S	SOGC 20 03 103 G D02									
HISTORICAL PIN COUNT SCHEMATIC RESISTANCE TOLERANCE PACKAGING MODEL PIN COUNT SCHEMATIC VALUE CODE										
New Global Part Numbering: SOGC1605131AGRZ (preferred part numbering format)										
	S O G C 1 6 0 5 1 3 1 A G R Z									
GLOBAL	PIN COUNT	SCHEM	ATIC	RESISTA VALU		TOLERA		PAC	KAGING	SPECIAL
SOGC	16	05 = DualTe	rminator	3 digit Imp	edance	<b>F</b> =± 1°			d Free,Tube	Blank = Standard
			Alpha m	Alpha modifier J=±5% DC=Tin/Lea			(Dash Number) (up to 3 digits)			
			(see Impe				HZ= I In/Lea	ad,Tape & Reel	From <b>1-999</b> as applicable	
Codes table)  applicable    Historical Part Number example: SOGC1605221331G (will continue to be accepted)										
SOGC		6	05		221		• <u>~</u>	31	G	R61
HISTORICAL		OUNT	SCHEMA	TIC	RESISTA	ANCE	RESIS	TANCE UE 2	TOLERANCE	PACKAGING



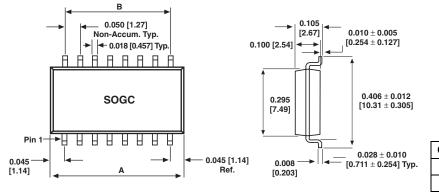


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#### **DIMENSIONS** in inches [millimeters]



1/			
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<u> </u>		HHHH	

← 0.006 [0.152] Max. Typ.

GLOBAL MODEL	Α	В	
SOGC16	0.440 [11.18]	0.350 [8.89]	
SOGC20	0.540 [13.72]	0.450 [11.43]	

TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	S0GC16	S0GC20		
Package Power Rating (max. at + 70°C)	W	1.6	2.0		
TC Tracking (- 55°C to + 125°C)	ppm/°C	± 50			
Voltage Coefficient of Resistance:	ppm/V	< 50 typical			
Maximum Operating Voltage:	VDC	5	0		
Operating Temperature Range:	°C	- 55 to + 125.			
Storage Temperature Range:	°C	- 55 to	+ 150		

MECHANICAL SPECIFICATIONS				
Marking:	Model number, schematic number, value tolerance, pin 1 indicator, date code.			
Marking Resistance to Solvents:	Permanency testing per MIL-STD-202, Method 215.			
Maximum Solder Reflow Temperature:	+ 255°C			
Solderability:	Per MIL-STD-202, Method 208E.			
Terminals:	Copper alloy. Solder dipped terminal			
Body:	Molded epoxy.			

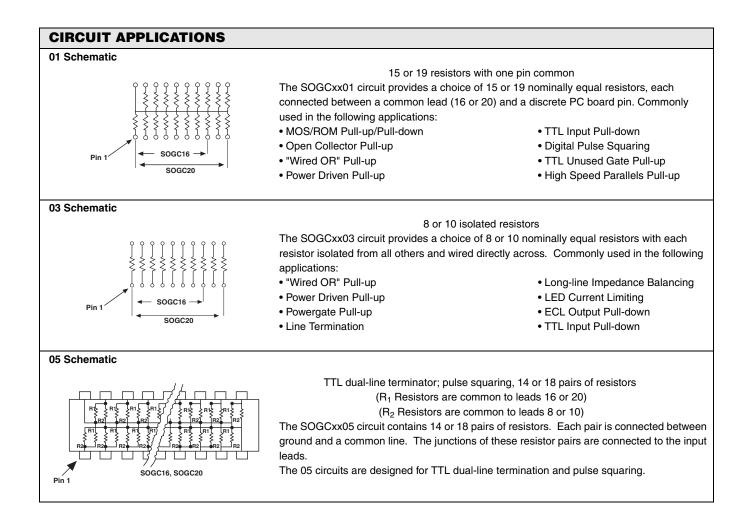
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IMPEDANCE CODES					
CODE	<b>R</b> <sub>1</sub> (Ω)	<b>R<sub>2</sub> (</b> Ω <b>)</b>	CODE	<b>R</b> <sub>1</sub> (Ω)	<b>R</b> <sub>2</sub> (Ω)
500B	82	130	141A	270	270
750B	120	200	181A	330	390
800C	130	210	191A	330	470
990A	160	260	221B	330	680
101C	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	ЗК	6.2K

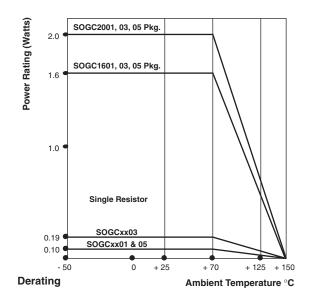




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PERFORMANCE				
TEST	MAX. ∆R (TYPICAL TEST LOTS)			
Power Conditioning	± 0.50% ΔR			
Thermal Shock	± 0.50% ΔR			
Short Time Overload	± 0.25% ΔR			
Low Temperature Operation	± 0.25% ΔR			
Moisture Resistance	± 0.50% ΔR			
Resistance to Soldering Heat	± 0.25% ΔR			
Shock	± 0.25% ΔR			
Vibration	± 0.25% ΔR			
Load Life	± 0.50% ΔR			
Terminal Strength	± 0.25% ∆R			
Insulation Resistance	10,000 Megohm (minimum)			
Dielectric Withstanding Voltage	No evidence of arcing or damage (200 V RMS for 1 minute)			



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