SOGC 01, 03, 05

Vishay Dale

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



STANDARD ELECTRICAL SPECIFICATIONS

FEATURES

- 0.110" [2.79 mm] maximum seated height
- Rugged, molded case construction
- 0.050" [1.27 mm] lead spacing
- Reduces total assembly costs
- Compatible with automatic surface mounting equipment
 Compliant
- Uniform performance characteristics
- Meets EIA PDP 100, SOGN-0003 outline dimensions
- · Available in tube pack or tape and reel pack
- Lead (Pb)-free version is RoHS compliant

RESISTOR PACKAGE RESISTANCE OPERATING TEMPERATURE TOLERANCE GLOBAL SCHEMATIC VOLTAGE COEFFICIENT CIRCUIT POWER RANGE MODEL ± % W @ 70°C ppm/°C W @ 70°C VDC Ω 01 0.1 1.6 2 (1, 5*) 10-1M0 50 max 100 SOGC16 03 0.19 1.6 2 (1, 5*) 10-1M0 50 max 100 100 05 0.1 1.6 2 (5*) 10-1M0 50 max 01 0.1 2.0 2 (1, 5*) 10-1M0 50 max 100 SOGC20 03 0.19 2 (1, 5*) 10-1M0 100 2.0 50 max 05 2.0 2 (5*) 10-1M0 50 max 100 0.1 Tolerances in brackets available upon request. 100 milliohm maximum on zero ohm jumper **GLOBAL PART NUMBER INFORMATION** New Global Part Numbering: SOGC200310K0GDC (preferred part numbering format) S 0 G С 2 0 0 3 1 0 Κ 0 G D С GLOBAL **PIN COUNT** SCHEMATIC RESISTANCE TOLERANCE PACKAGING SPECIAL MODEL VALUE CODE EJ= Lead Free,Tube SOGC 16 01 = Bussed R = Decimal $F = \pm 1\%$ Blank = Standard K=Thousand $\mathbf{G} = \pm 2\%$ 20 03 = Isolated EA=Lead (Pb)-free, Tape & Reel (Dash Number) (up to 3 digits) 00 = Special $\mathbf{M} = \text{Million}$ DC=Tin/Lead,Tube $J = \pm 5\%$ From 1-999 as **10R0** = 10 Ω S = Special RZ=Tin/Lead, Tape & Reel **680K** = 680 KΩ $\mathbf{Z} = 0 \Omega$ Jumper applicable $1M00 = 1.0 M\Omega$ Historical Part Number example: SOGC2003103G (will continue to be accepted) SOGC D02 20 03 103 G HISTORICAL PIN COUNT SCHEMATIC RESISTANCE TOLERANCE PACKAGING MODEL VALUE CODE New Global Part Numbering: SOGC1605131AGRZ (preferred part numbering format) S 0 G С 1 6 0 5 3 1 G R Ζ 1 Α GLOBAL **PIN COUNT** SCHEMATIC RESISTANCE TOLERANCE PACKAGING SPECIAL MODEL VALUE CODE SOGC 16 05 = Dual Terminator 3 digit Impedance $F = \pm 1\%$ EJ= Lead Free, Tube Blank = Standard 20 code, followed by EA=Lead (Pb)-free,Tape & Reel $G = \pm 2\%$ (Dash Number) Alpha modifier DC=Tin/Lead,Tube (up to 3 digits) $J = \pm 5\%$ (see Impedance RZ=Tin/Lead, Tape & Reel From 1-999 as Codes table) applicable Historical Part Number example: SOGC1605221331G (will continue to be accepted) SOGC 16 331 G 05 221 R61 HISTORICAL PIN COUNT SCHEMATIC RESISTANCE RESISTANCE TOLEBANCE PACKAGING MODEL VALUE1 VALUE 2 CODE

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







SOGC 01, 03, 05

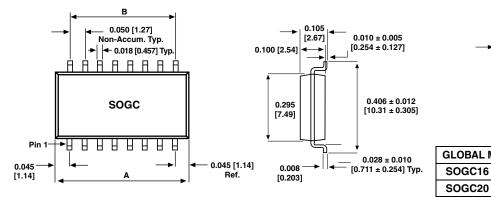
Thick Film Resistor Networks, Dual-In-Line Small Outline Molded Dip, 01, 03, 05 Schematics

Vishay Dale

0.350 [8.89]

0.450 [11.43]

DIMENSIONS in inches [millimeters]



LOBAL MODEL	Α	В

0.440 [11.18]

0.540 [13.72]

–0.006 [0.152] Max. Typ.

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	50		
Operating Temperature Range:	°C	- 55 to + 125		
Storage Temperature Range:	°C	- 55 to + 150		

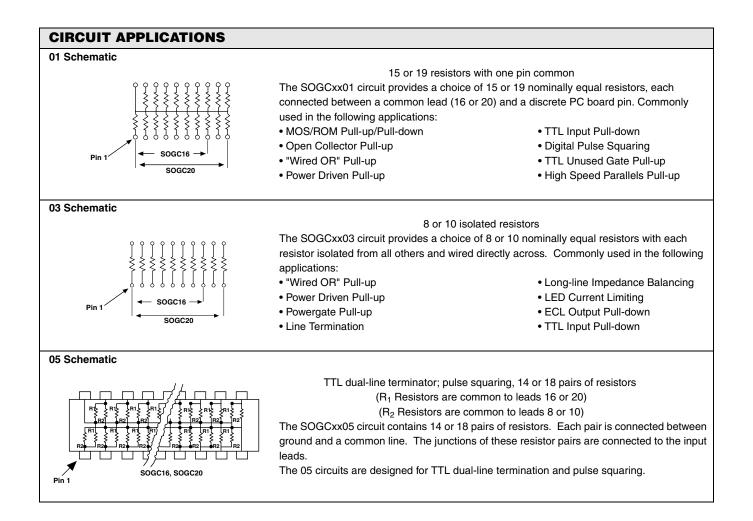
MECHANICAL SPECIFICATIONS		
Marking:	Model number, schematic number, value tolerance, pin 1 indicator, date code	
Marking Resistance to Solvents:	Permanency testing per MIL-STD-202, Method 215	
Maximum Solder Reflow Temperature:	+ 255 °C	
Solderability:	Per MIL-STD-202, Method 208E	
Terminals:	Copper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

Vishay Dale



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

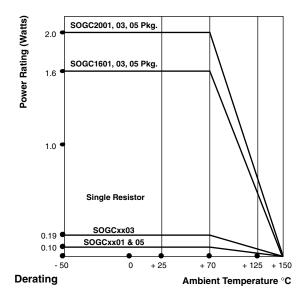
MPEDANCE CODES					
CODE	R ₁ (Ω)	R₂ (Ω)	CODE	R ₁ (Ω)	R₂ (Ω)
500B	82	130	141A	270	270
750B	120	200	181A	330	390
800C	130	210	191A	330	470
990A	160	260	221B	330	680
101C	180	240	281B	560	560
111C	180	270	381B	560	1.2K
121B	180	390	501C	620	2.7K
121C	220	270	102A	1.5K	3.3K
131A	220	330	202B	ЗК	6.2K





SOGC 01, 03, 05

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



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 % ΔR	
Insulation Resistance	10 000 Megohm (minimum)	
Dielectric Withstanding Voltage	No evidence of arcing or damage (200 V RMS for 1 minute)	



Vishay

Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.