Vishay Dale



Thick Film Resistor Networks, Dual-In-Line Small Outline Molded Dip 45 & 46 Schematics



FEATURES

- 0.110" [2.79] maximum seated height
- Rugged, molded case construction
- 0.050" [1.27] lead spacing
- · Reduces total assembly costs
- Compatible with automatic surface mounting equipment





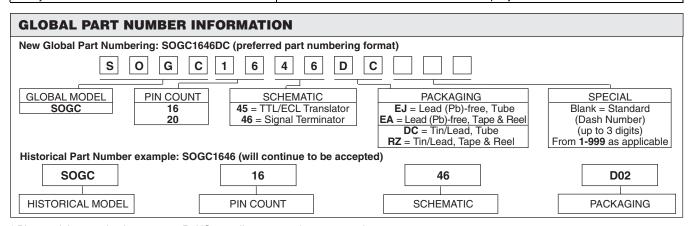
RoHS*

- 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

STANDARD ELECTRICAL SPECIFICATIONS							
GLOBAL MODEL	CIRCUIT SCHEMATIC	RESISTOR CIRCUIT W at 70 °C	PACKAGE POWER W at 70 °C	TOLERANCE ± %	RESISTANCE VALUES	OPERATING VOLTAGE VDC	TEMPERATURE COEFFICIENT ± ppm/°C
SOGC16	45	0.1	1.6	2	180, 270, 820	50 max	100
	46	0.1	1.6	2	330, 150, 330	50 max	100
SOGC20	45	0.1	2.0	2	180, 270, 820	50 max	100
	46	0.1	2.0	2	330, 150, 330	50 max	100

TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	S0GC16	SOGC20		
Package Power Rating (Maximum at + 70 °C)	W	1.6	2.0		
TCR 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			



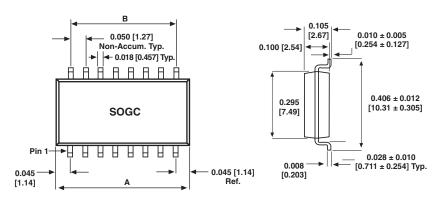
^{*} Pb containing terminations are not RoHS compliant, exemptions may apply

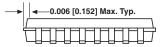


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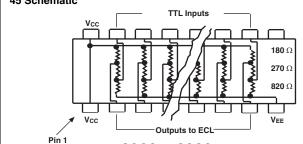
DIMENSIONS in inches [millimeters]





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

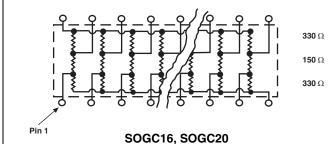
CIRCUIT APPLICATIONS 45 Schematic



TTL to ECL translator

The SOGCxx45 network consists of resistors of 3 different values, internally divided into 6 or 8 identical three (3) resistor sections for TTL to ECL translation.

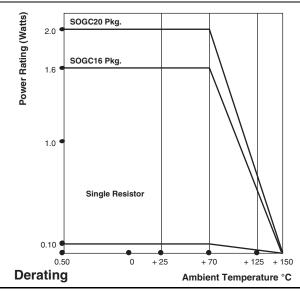
46 Schematic



SOGC16, SOGC20

SCSI-BUS signal terminator

The SOGCxx46 network consists of resistors of 2 different values, internally divided into 7 or 9 identical three (3) resistor sections for SCSI-BUS terminator applications.



PERFORMANCE				
TEST	MAX. △ <i>R</i> (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 M Ω (minimum)			
Dielectric Withstanding Voltage	No evidence of arcing or damage (200 V RMS for 1 minute)			

Test methods per MIL-STD-202



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