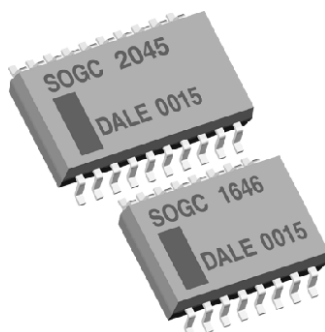


Thick Film Resistor Networks, Dual-In-Line Small Outline Molded Dip 45 & 46 Schematics



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
- 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



Available


RoHS*
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	CIRCUIT SCHEMATIC	RESISTOR CIRCUIT W AT 70 °C	PACKAGE POWER W AT 70 °C	TOLERANCE ± %	RESISTANCE VALUES Ω	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	SOGC16	SOGC20
Package Power Rating: (Maximum 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

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: SOGC1646DC (preferred part numbering format)

S	O	G	C	1	6	4	6	D	C			
GLOBAL MODEL		PIN COUNT		SCHEMATIC		PACKAGING			SPECIAL			
SOGC		16 20		45 = TTL/ECL Translator 46 = Signal Terminator		EJ = Lead Free, Tube EA = Lead Free, Tape & Reel DC = Tin/Lead, Tube RZ = Tin/Lead, Tape & Reel			Blank = Standard (Dash Number) (up to 3 digits) From 1-999 as applicable			

Historical Part Number example: SOGC1646 (will continue to be accepted)

SOGC	16	46	D02
HISTORICAL MODEL	PIN COUNT	SCHEMATIC	PACKAGING

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

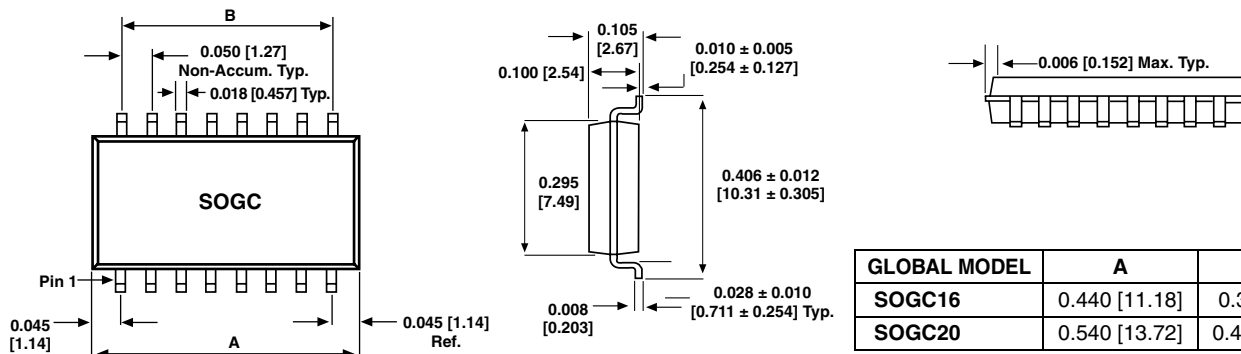


Thick Film Resistor Networks, Dual-In-Line Small Outline Molded Dip 45 & 46 Schematics

SOGC 45, 46

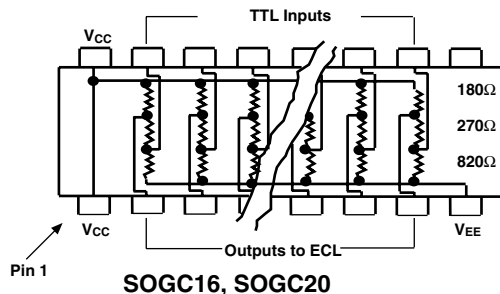
Vishay Dale

DIMENSIONS in inches [millimeters]



CIRCUIT APPLICATIONS

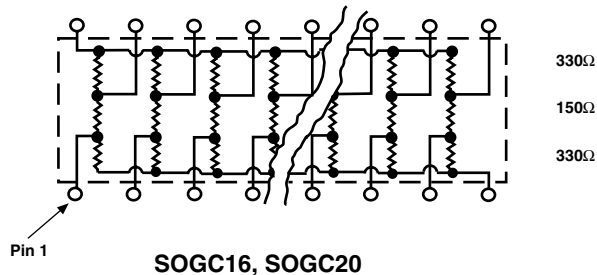
45 Schematic



TTL to ECL translator

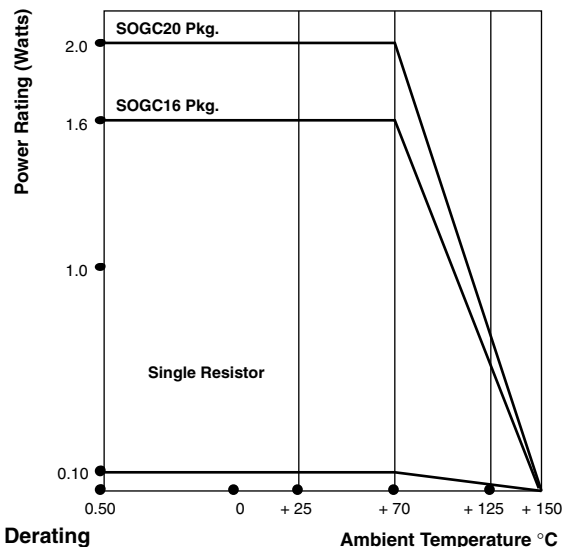
The SOGCxx45 network consists of resistors of 3 different values, internally divided into 6 or 8 identical three (3) resistor sections for TTL to ECL translation.

46 Schematic



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. ΔR (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)

* Test methods per MIL-STD-202



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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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