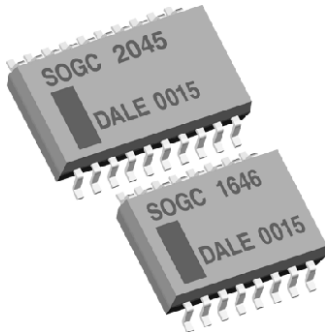


**Thick Film Resistor Networks, Dual-In-Line
Small Outline Molded Dip 45 & 46 Schematics**



FEATURES

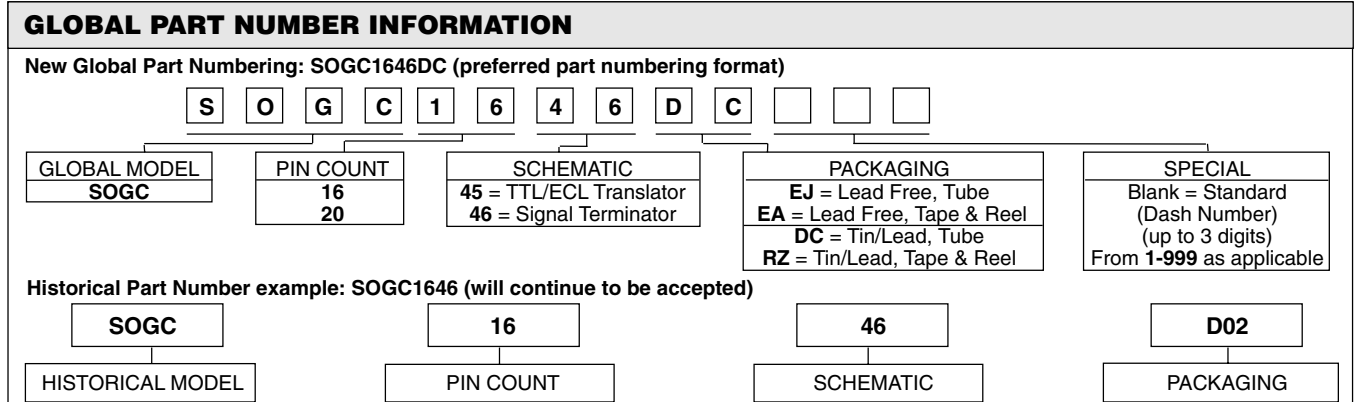
- 0.110" [2.79] maximum seated height
- Rugged, molded case construction
- 0.050" [1.27] lead spacing
- Reduces total assembly costs
- Compatible with automatic surface mounting equipment
- Uniform performance characteristics
- Meets EIA PDP 100, SOGN-0003 outline dimensions
- Available in tube pack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



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

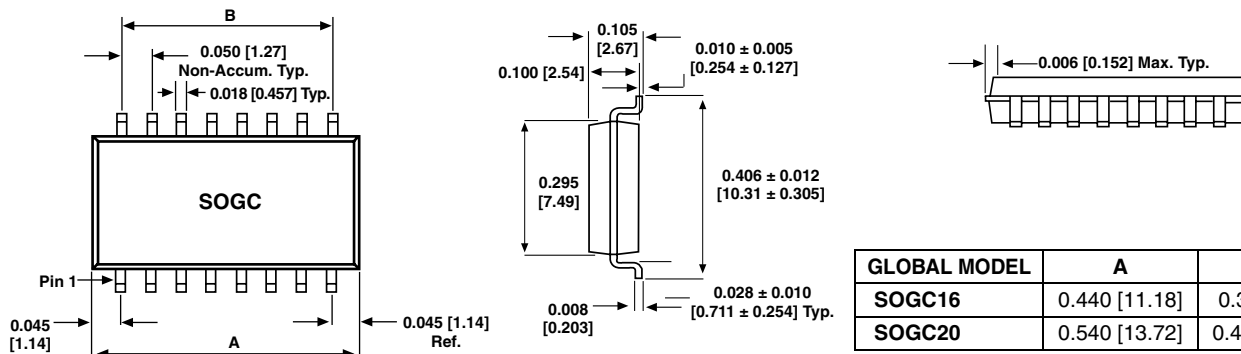
TECHNICAL SPECIFICATIONS			
PARAMETER	UNIT	SOGC16	SOGC20
Package Power Rating: (Maximum at + 70°C)	W	1.6	2.0
TC Tracking: (- 55°C to + 125°C)	ppm/°C	± 50	
Voltage Coefficient of Resistance:	ppm/V	< 50 typical.	
Maximum Operating Voltage:	VDC	50	
Operating Temperature Range:	°C	- 55 to + 125	
Storage 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



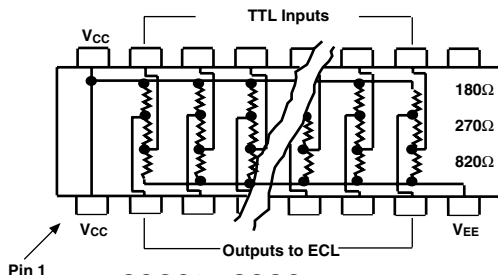
* Pb containing terminations are not RoHS compliant, exemptions may apply

DIMENSIONS in inches [millimeters]



CIRCUIT APPLICATIONS

45 Schematic

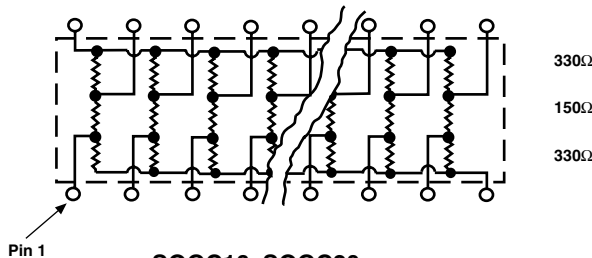


SOGC16, SOGC20

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.

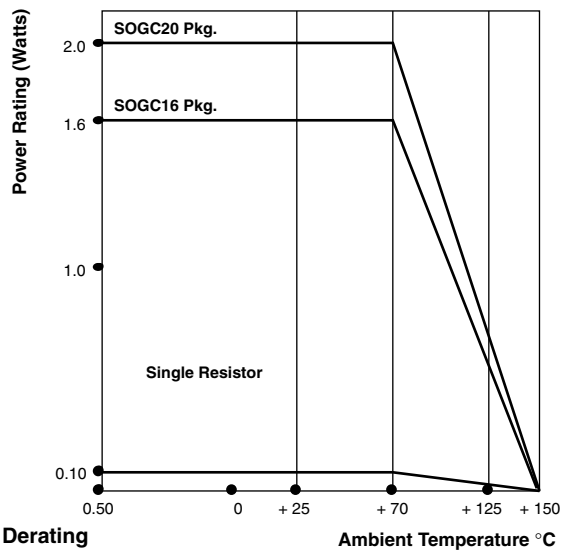
46 Schematic



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. ΔR (TYPICAL TEST LOTS)
Power Conditioning	$\pm 0.50\% \Delta R$
Thermal Shock	$\pm 0.50\% \Delta R$
Short Time Overload	$\pm 0.25\% \Delta R$
Low Temperature Operation	$\pm 0.25\% \Delta R$
Moisture Resistance	$\pm 0.50\% \Delta R$
Resistance to Soldering Heat	$\pm 0.25\% \Delta R$
Shock	$\pm 0.25\% \Delta R$
Vibration	$\pm 0.25\% \Delta R$
Load Life	$\pm 0.50\% \Delta R$
Terminal Strength	$\pm 0.25\% \Delta R$
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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