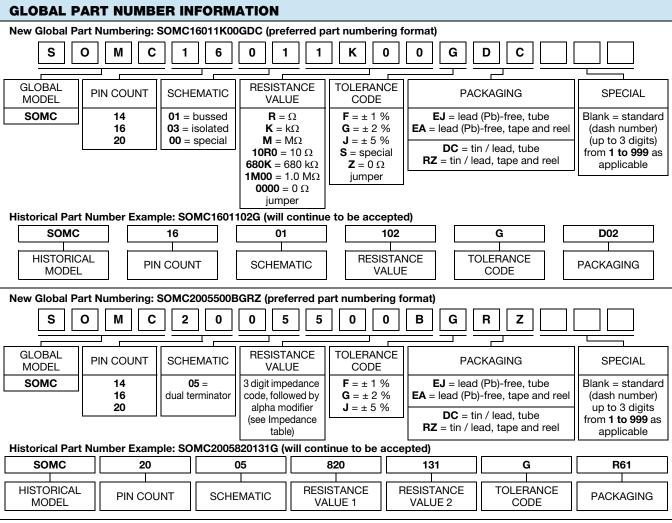
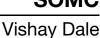
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Note

For additional information on packaging, refer to the Surface Mount Network Packaging document (www.vishay.com/doc?31540)

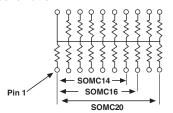




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CIRCUIT APPLICATIONS

01 Schematic



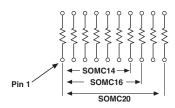
13, 15, or 19 resistors with one pin common

The SOMCxx01 circuit provides a choice of 13, 15, or 19 nominally equal resistors, each connected between a common lead (14, 16, or 20) and a discrete PC board pin. Commonly used in the following applications:

- MOS/ROM pull-up/pull-down
- Open collector pull-up
- "Wired OR" pull-up
- Power driven pull-up

- TTL input pull-down
- Digital pulse squaring
- TTL unused gate pull-up
- High speed parallels pull-up

03 Schematic



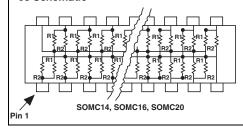
7, 8, or 10 isolated resistors

The SOMCxx03 circuit provides a choice of 7, 8, or 10 nominally equal resistors with each resistor isolated from all others and wired directly across. Commonly used in the following applications:

- "Wired OR" pull-up
- Power driven pull-up
- Powergate pull-up
- Line termination

- Long-line Impedance balancing
- LED current limiting
- ECL output pull-down
- TTL input pull-down

05 Schematic



TTL dual-line terminator; pulse squaring, 12, 14, or 18 pairs of resistors (R₁ resistors are common to leads 14, 16, or 20)

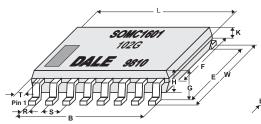
(R₂ resistors are common to leads 7, 8, or 10)

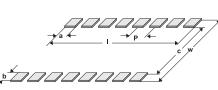
The SOMCxx05 circuit contains 12, 14, or 18 pairs of resistors. Each pair is connected between ground and a common line. The junctions of these resistor pairs are connected

to the input leads.

The 05 circuits are designed for TTL dual-line termination and pulse squaring.

DIMENSIONS





SOLDER PAD DIMENSIONS in millimeters						
	а	b	С	I	р	w
WAVE	0.64	1.91	5.34	9.53	1.27	9.15
REFLOW	0.64	1.91	5.34	9.53	1.27	9.15

Notes

- The dimension shown are for a 16 pin part. For parts with different pin numbers use the same pitch and add or subtract pads as required
- Maximum solder reflow temperature +255 °C

DIMENSIONS in millimeters											
PIN NO#	L	W	В	E	F	G	Н	K	R	S	T
14	9.91	7.62	7.62	6.20	5.59	2.16	2.03	0.914	0.457	1.27	1.14
16	11.18	7.62	8.89	6.20	5.59	2.16	2.03	0.914	0.457	1.27	1.14
20	13.72	7.62	11.43	6.20	5.59	2.16	2.03	0.914	0.457	1.27	1.14
Tol.	± 0.254	± 0.381	± 0.254	± 0.381	± 0.127	± 0.127	± 0.127		± 0.076	± 0.254	

MARKING INFORMATION

1 % parts have 4 digits while 2 % and 5 % parts have 3 digits.

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IMPEDANCE CODES					
CODE	R ₁ (Ω)	R ₂ (Ω)	CODE	R ₁ (Ω)	R ₂ (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	3K	6.2K

Note

• For additional impedance codes, refer to the Dual Terminator Impedance Code Table document (www.vishay.com/doc?31530)

PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST RESULTS (TYPICAL TEST LOTS)			
Power conditioning	MIL-STD-202	± 0.5 %			
Load life at 70 °C	MIL-STD-202	± 0.5 %			
Short time overload	MIL-STD-202	± 0.25 %			
Thermal shock	MIL-STD-202	± 0.5 %			
Moisture resistance	MIL-STD-202	± 0.5 %			
Resistance to soldering heat	MIL-STD-202	± 0.25 %			
Low temperature operation	MIL-STD-202	± 0.25 %			
Vibration	MIL-STD-202	± 0.25 %			
Shock	MIL-STD-202	± 0.25 %			
Terminal strength	MIL-STD-202	± 0.25 %			

MECHANICAL SPECIFICATIONS				
Marking Model number, schematic number, value tolerance, pin 1 indica				
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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