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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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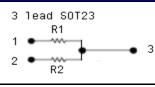
MODELS SS103VD, SFN06VD

Voltage divider circuit Thin film resistor network RoHS compliant available

FEATURES

Precision Nichrome Resistors on Silicon	Passivation coating provides protection in humid environments
Industry Standard Packaging	6 pad SON ¹ 2mm square with 0.65 mm pitch (JEDEC MO-229D) 3 lead SOT23 (JEDEC TO-239)
Ratio Tolerances	< ± 0.05%
TCR Tracking Tolerances	< ± 5 ppm/°C

CIRCUIT SCHEMATIC



6	pad	SON	2mm	square
		R1		
	1 •		1	
	з •-	R2	•	•5

ELECTRICAL²

Standard Resistance Range	1K ohms to 100K ohms
Resistor Tolerances	± 0.25%
Ratio Tolerances	± 0.05%
TCR	Reference TCR table
Operating Temperature Range	-55°C to +125°C
Interlead Capacitance	< 2 pF
Insulation Resistance	= 10,000 Megohms
Maximum Operating Voltage	100 Vdc or v PR
Noise, Maximum (MIL-STD-2002, Method 308)	-25 dB
Maximum Package Power @ 70°C	0.2 Watts

RESISTANCE TOLERANCES							
Accuracy Code at 25°C	CA	СВ	D	FA	F	G	J
Absolute Resistance Tolerances (%)	±0.25	± 0.25	± 0.5	± 1.0	± 1.0	± 2.0	± 5.0
Ratio Tolerances (R1 Ref) (%)	±0.05	± 0.1	± 0.1	± 0.05	± 1.0	N/A	N/A

¹ Small outline no lead (SON) package is also referred to as quad flat no lead (QFN) or dual flat no lead (DFN) packages.

² Specifications subject to change without notice.

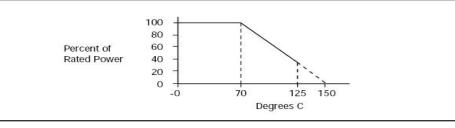


SS103VD

TEMPERATURE COEFFICIENT OF RESISTANCE (TCR)

TCR Code (-55°C to 125°C)	Q	Р	S	L
Absolute (ppm/°C)	± 25	± 50	± 100	± 200
Tracking (R1 Ref) (ppm/°C)	±5	±5	N/A	N/A

POWER DERATING CURVE



ENVIRONMENTAL (MIL-R-83401)

Thermal Shock plus Power Conditioning	∆R 0.25%
Short Time Overload	ΔR 0.1%
Moisture Resistance	∆R 0.2%
Mechanical Shock	∆R 0.25%
Vibration	∆R 0.25%
Low Temperature Operation	ΔR 0.1%
High Temperature Exposure	ΔR 0.1%
Resistance to Solder Heat	∆R 0.05%
Marking Permanency	Per MIL-STD-202, Method 215
Storage Temperature Range	-55°C to +125°C

MECHANICAL

Lead Plating	80/20 Tin Lead (Standard)
	100 matte Tin (RoHS)
Lead Material	Copper Alloy
Lead Configurations (SLP/SS1)	No lead, Gull Wing
Lead Coplanarity (SS1 only)	0.003" (0.102 mm)
Substrate Material	Silicon
Resistor Material	Passivated Nichrome
Body Material	Molded Epoxy
Package Types	6 pad SON 2mm square, 3 lead SOT23

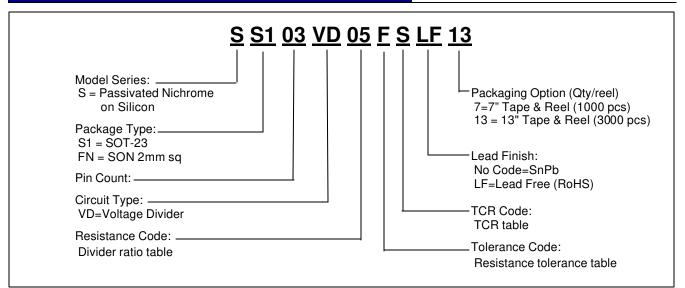




SS103VD

DIVIDER RATIO			
Resistance Code	Ratio (R2/R1)	R1 (ohms)	R2 (ohms)
01	1.613	12.4K	20K
02	10	10K	100K
03	4	5K	20K
05	1	20K	20K
06	9	11.3K	101.7K
07	2	10K	20K
08	3	3.333K	10K
09	2	5K	10K
10	1	10K	10K
11	2	1K	2K
12	2	50K	100K

ORDERING INFORMATION³



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³ Contact our customer service for custom designs and features.

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