Resistors

SOT23 Surface Mount Voltage Divider

DIV23 Series

- Replaces legacy SOT23 Series for new designs
- Precision ratio tolerances to ±0.05%
- Superior alternative to matched sets
- Ultra-stable TaNSil® resistors on silicon substrate
- RoHS Compliant and Sn/Pb terminations available







All Pb-free parts comply with EU Directive 2011/65/EU (RoHS2)

Electrical Data

Element Resistance Range	10 to 200KΩ
Total Resistance Range	20 to 400KΩ
Absolute Tolerance	To ±0.1%
Ratio Tolerance to R1	To ±0.05%
Absolute TCR	To ±25ppm/°C
Tracking TCR	To ±2ppm/°C
Element Power Rating @ 70°C	125mW
Package Power Rating @ 70°C	250mW
Rated Operating Voltage (not to exceed $\sqrt{P \times R}$)	100 Volts
Operating Temperature	-55°C to +125°C
Noise	<-30dB

Environmental Data

Test Per MIL-PRF-83401	Typical Delta R	Max Delta R	
Thermal Shock	±0.02%	±0.1%	
Power Conditioning	±0.03%	±0.1%	
High Temperature Exposure	±0.03%	±0.05%	
Short-time Overload	±0.02%	±0.05%	
Low Temperature Storage	±0.03%	±0.05%	
Life	±0.05%	±0.1%	

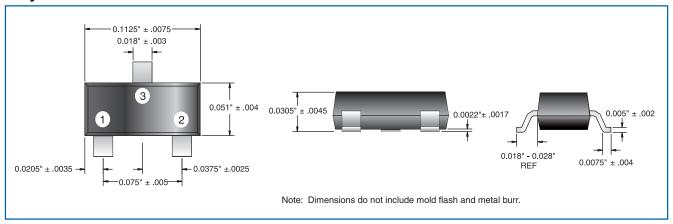
Manufacturing Capability

Element Resistance	Available Absolute Tolerances	Available Ratio Tolerances	Best Absolute TCR	Tracking TCR
10Ω - 25Ω	FGJK	DFG	±100ppm/°C	±25ppm/°C
25.1Ω - 50Ω	DFGJK	CDFG	±50ppm/°C	±10ppm/°C
51Ω - 500Ω	CDFGJK	BCDFG	±25ppm/°C	±2ppm/°C
501Ω - 100ΚΩ	BCDFGJK	ABCDFG	±25ppm/°C	±2ppm/°C
101ΚΩ - 200ΚΩ	BCDFGJK	BCDFG	±25ppm/°C	±2ppm/°C

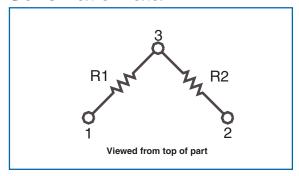
DIV23 Series



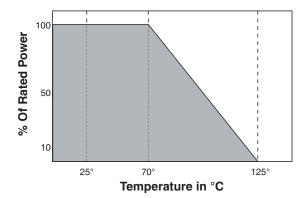
Physical Data



Schematic Data



Power Derating Data



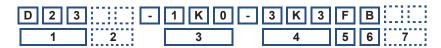
DIV23 Series



Ordering Procedure

This product has two valid part numbers:

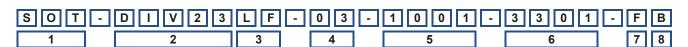
European (Welwyn) Part Number: D23-1K0-3K3FB (25ppm/°C, R1=1 kilohm, R2=3.3 kilohms, absolute tolerance ±1%, ratio tolerance ±0.1%, Pb-free)



1	2	3	4	5	6	7
Туре	Absolute TCR	Value R1	Value R2	Absolute Tolerance	Ratio Tolerance	Termination & Packing
D23 =	Omit for ±25ppm/°C	E24 = 3/4	characters	$B = \pm 0.1\%$	$A = \pm 0.05\%$	Omit for Pb-free,
DIV23	02 = ±50ppm/°C	E96 = 3/4 characters R = ohms K = kilohms		$C = \pm 0.25\%$	$B = \pm 0.1\%$	Standard pack
	01 = ±100ppm/°C			$D = \pm 0.5\%$	$C = \pm 0.25\%$	PB = SnPb finish,
	00 = ±250ppm/°C			F = ±1%	$D = \pm 0.5\%$	Standard pack
,				G = ±2%	F = ±1%	1000/reel
				J = ±5%	G = ±2%	
				K = ±10%		•

Note that this is equivalent to the legacy part number SOT23-3K3-1K0FB in which positions of R1 and R2 were transposed.

USA (IRC) Part Number: SOT-DIV23LF-03-1001-3301-FB (25ppm/°C, R1=1 kilohm, R2=3.3 kilohms, absolute tolerance ±1%, ratio tolerance ±0.1%, Pb-free)



1	2	3	4	5	6	7	8	
Family	Model	Termination	Absolute TCR	Value R1	Value R2	Absolute Tolerance	Ratio Tolerance	Packing
SOT	DIV23	Omit for SnPb	$03 = \pm 25 \text{ppm/°C}$	3 digits +	multiplier	$B = \pm 0.1\%$	$A = \pm 0.05\%$	1000/reel
		(60/40) LF = Pb-free	$02 = \pm 50 \text{ppm/}^{\circ}\text{C}$	R = ohms for values <100 ohms		$C = \pm 0.25\%$	$B = \pm 0.1\%$	
			01 = ±100ppm/°C			$D = \pm 0.5\%$	$C = \pm 0.25\%$	
	(100%Sn)		$00 = \pm 250 \text{ppm/}^{\circ}\text{C}$			F = ±1%	$D = \pm 0.5\%$	
				-		G = ±2%	F = ±1%	
						$J = \pm 5\%$	G = ±2%	
						K = ±10%		•

Note that this is equivalent to the legacy part number SOT-SOT23LF-03-3301-1001-FB in which positions of R1 and R2 were transposed.

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