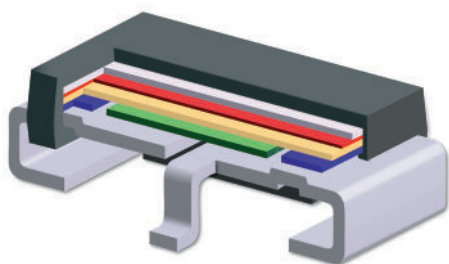


ISA-PLAN® // PRECISION RESISTORS

SMV-PW // Size 4723



Features

- 3 W permanent power at 80 °C
- Continuous current load up to 30 A (3.3 mOhm)
- Excellent long-term stability
- High pulse power rating
- Mounting: reflow-, IR- and wave-soldering
- *Detail specification ESCC 4001/028*
- SnPb tinned contacts

Applications

- Aerospace

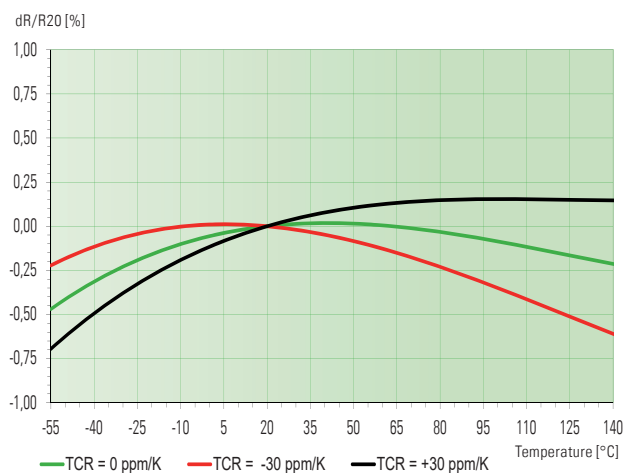


Technical data

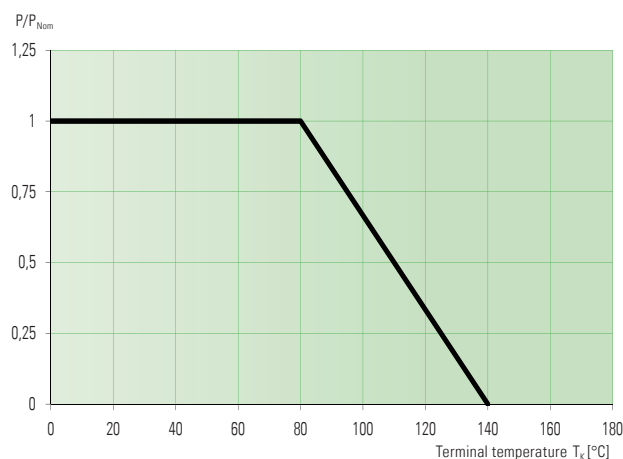
Resistance values	Ohm	0.0033 to 1 *
Tolerance	%	0.5 / 1 *
Temperature coefficient (22-60 °C)	ppm/K	≤50ppm/K <i>for</i> ≤10 mΩ ≤30ppm/K <i>for</i> >10 mΩ
Applicable temperature range	°C	-55 to +140
Power rating	W	3
Internal heat resistance (R _{thi})	K/W	<20
Isolation voltage	V AC/DC	1000
Stability (Nominal load) deviation after 2000h, T _K = Terminal temperature		<0.2% (T _K =80 °C)

* For detailed information see table on page 2

Temperature dependence of the electrical resistance of MANGANIN® resistors at +22°C to +60°C



Power derating curve



— Stability < 0.2 %



SMV-PW // Size 4723

Recommended solder profile

Reflow-, IR- and wave-soldering

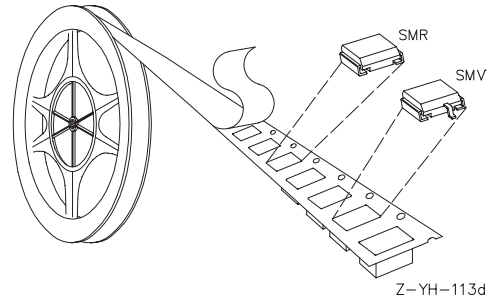
Temperature	°C	260	255	217
Time	sec	peak	40	90

Packaging information

Specification	DIN EN 60286-3		
Tape width	mm	24	
Reel size	inch	13	

Form of delivery

Tape	pcs	up to 300	
Tape and reel	pcs	>300	



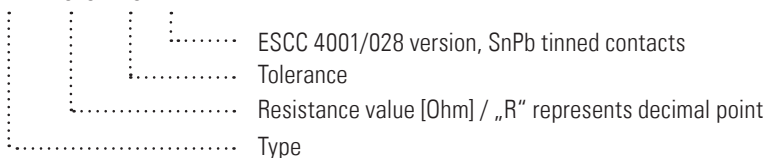
Available standard resistance values and tolerances

Ordering code	ESCC component number	Ordering code	ESCC component number
SMV-R0033-1.0-PW	400102802R0033F	SMV-R056-0.5-PW	400102802R056D
SMV-R0039-1.0-PW	400102802R0039F	SMV-R068-0.5-PW	400102802R068D
SMV-R005-1.0-PW	400102802R005F	SMV-R068-1.0-PW	400102802R068F
SMV-R0068-1.0-PW	400102802R0068F	SMV-R082-0.5-PW	400102802R082D
SMV-R010-0.5-PW	400102802R010D	SMV-R100-0.5-PW	400102802R100D
SMV-R010-0.5-PW	400102802R010F	SMV-R100-1.0-PW	400102802R100F
SMV-R012-0.5-PW	400102802R012D	SMV-R120-1.0-PW	400102802R120F
SMV-R015-0.5-PW	400102802R015D	SMV-R150-0.5-PW	400102802R150D
SMV-R015-1.0-PW	400102802R015F	SMV-R150-1.0-PW	400102802R150F
SMV-R018-0.5-PW	400102802R018D	SMV-R180-0.5-PW	400102802R180D
SMV-R018-1.0-PW	400102802R018F	SMV-R180-1.0-PW	400102802R180F
SMV-R020-0.5-PW	400102802R020D	SMV-R200-1.0-PW	400102802R200F
SMV-R020-1.0-PW	400102802R020F	SMV-R220-0.5-PW	400102802R220D
SMV-R022-0.5-PW	400102802R022D	SMV-R220-1.0-PW	400102802R220F
SMV-R022-1.0-PW	400102802R022F	SMV-R330-0.5-PW	400102802R330D
SMV-R027-0.5-PW	400102802R027D	SMV-R330-1.0-PW	400102802R330F
SMV-R033-0.5-PW	400102802R033D	SMV-R470-0.5-PW	400102802R470D
SMV-R033-1.0-PW	400102802R033F	SMV-R470-1.0-PW	400102802R470F
SMV-R039-0.5-PW	400102802R039D	SMV-R560-0.5-PW	400102802R560D
SMV-R039-1.0-PW	400102802R039F	SMV-R680-0.5-PW	400102802R680D
SMV-R047-0.5-PW	400102802R047D	SMV-R680-1.0-PW	400102802R680F
SMV-R047-1.0-PW	400102802R047F	SMV-1R00-0.5-PW	4001028021R00D
SMV-R050-1.0-PW	400102802R050F	SMV-1R00-1.0-PW	4001028021R00F

* other resistance values on request

Ordering code

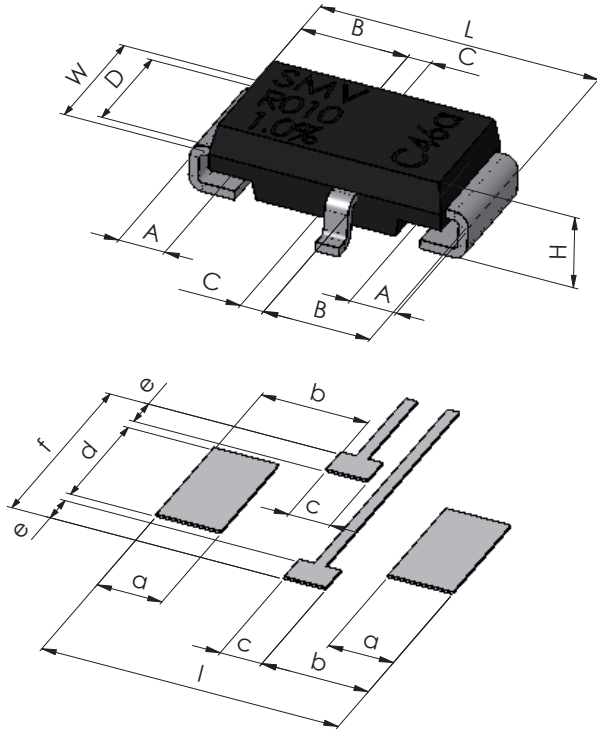
SMV - R010 - 1.0 - PW



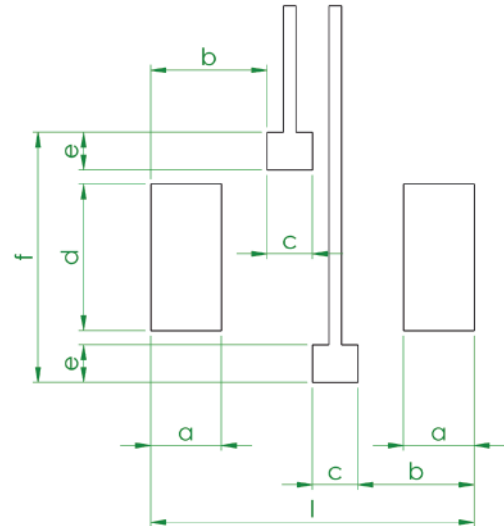


SMV-PW // Size 4723

Mechanical dimensions [mm]



Pcb-layout proposal (Reflow-soldering) [mm]



type	L	W	H	A	B	C	D
SMV	12.0 +0.3/-0.1	6.0 +0.6/-0.1	3.4 +0.2/-0.2	2.0 ±0.5	4.6 ±0.3	1.0 +0.3/-0.2	5.0 +0.3/-0.1

solder pad type	l	a	b	c	d	e	f
SMV	12.8	2.8	4.6	1.8	5.8	1.5	9.9

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