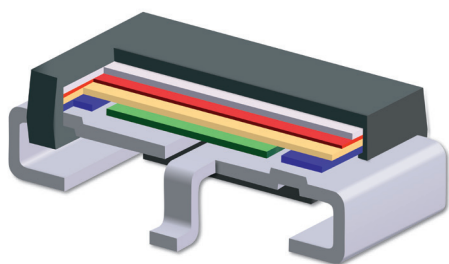


ISA-PLAN® // PRECISION RESISTORS

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

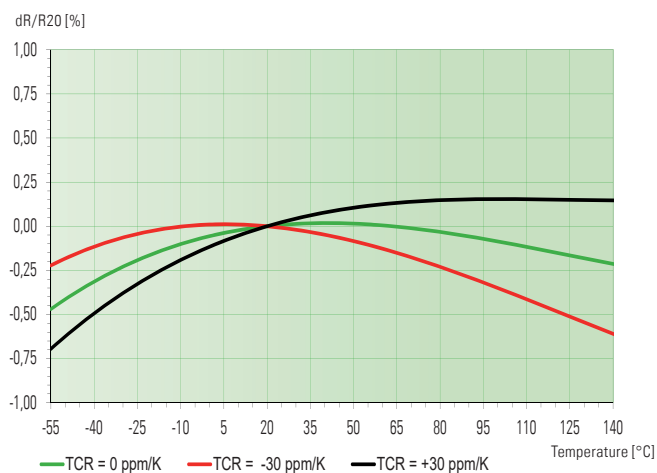


Technical data

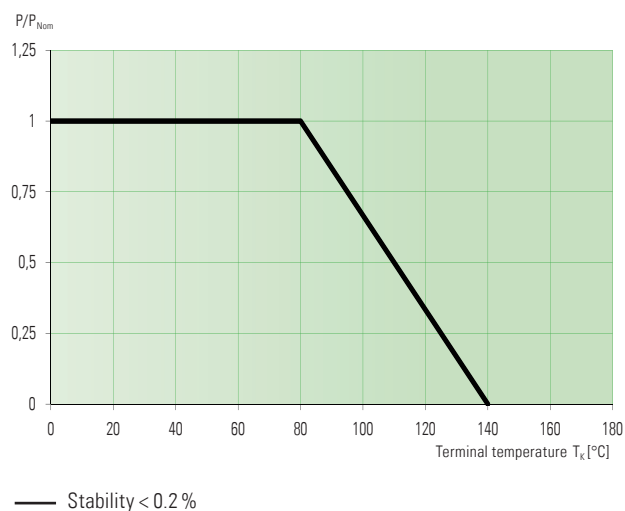
Resistance values	Ohm	0.0033 to 1 *
Tolerance	%	0.5 / 1 *
Temperature coefficient (22-60 °C)	ppm/K	≤50ppm/K for ≤10 mΩ ≤30ppm/K for >10 mΩ
Applicable temperature range	°C	-55 to +140
Power rating	W	3
Internal heat resistance (R _{thi})	K/W	<20
Isolation voltage	V AC/DC	1000
Stability (Nominal load) deviation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





SMV-PW // Size 4723

Recommended solder profile

Reflow-, IR- and wave-soldering

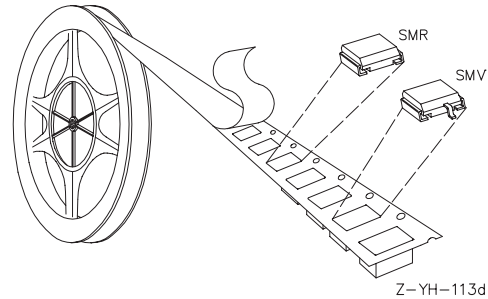
Temperature	°C	260	255	217
Time	sec	peak	40	90

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

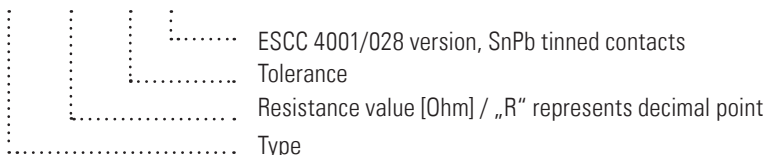
Ordering code	ESCC component number
SMV-R0033-1.0-PW	ESCC 400102802R0033F
SMV-R0039-1.0-PW	ESCC 400102802R0039F
SMV-R005-1.0-PW	ESCC 400102802R005F
SMV-R0068-1.0-PW	ESCC 400102802R0068F
SMV-R010-0.5-PW	ESCC 400102802R01D
SMV-R010-1.0-PW	ESCC 400102802R01F
SMV-R015-0.5-PW	ESCC 400102802R015D
SMV-R015-1.0-PW	ESCC 400102802R015F
SMV-R018-0.5-PW	ESCC 400102802R018D
SMV-R018-1.0-PW	ESCC 400102802R018F
SMV-R020-0.5-PW	ESCC 400102802R02D
SMV-R020-1.0-PW	ESCC 400102802R02F
SMV-R022-0.5-PW	ESCC 400102802R022D
SMV-R022-1.0-PW	ESCC 400102802R022F
SMV-R027-0.5-PW	ESCC 400102802R027D
SMV-R033-0.5-PW	ESCC 400102802R033D
SMV-R033-1.0-PW	ESCC 400102802R033F
SMV-R039-0.5-PW	ESCC 400102802R039D
SMV-R039-1.0-PW	ESCC 400102802R039F
SMV-R047-0.5-PW	ESCC 400102802R047D
SMV-R047-1.0-PW	ESCC 400102802R047F
SMV-R050-1.0-PW	ESCC 400102802R05F
SMV-R056-0.5-PW	ESCC 400102802R056D

Ordering code	ESCC component number
SMV-R056-1.0-PW	ESCC 400102802R056F
SMV-R068-0.5-PW	ESCC 400102802R068D
SMV-R068-1.0-PW	ESCC 400102802R068F
SMV-R082-0.5-PW	ESCC 400102802R082D
SMV-R100-0.5-PW	ESCC 400102802R1D
SMV-R100-1.0-PW	ESCC 400102802R1F
SMV-R120-1.0-PW	ESCC 400102802R12F
SMV-R150-0.5-PW	ESCC 400102802R15D
SMV-R150-1.0-PW	ESCC 400102802R15F
SMV-R180-0.5-PW	ESCC 400102802R18D
SMV-R180-1.0-PW	ESCC 400102802R18F
SMV-R200-1.0-PW	ESCC 400102802R2F
SMV-R220-0.5-PW	ESCC 400102802R22D
SMV-R220-1.0-PW	ESCC 400102802R22F
SMV-R270-1.0-PW	ESCC 400102802R27F
SMV-R330-0.5-PW	ESCC 400102802R33D
SMV-R330-1.0-PW	ESCC 400102802R33F
SMV-R470-0.5-PW	ESCC 400102802R47D
SMV-R470-1.0-PW	ESCC 400102802R47F
SMV-R560-0.5-PW	ESCC 400102802R56D
SMV-R680-0.5-PW	ESCC 400102802R68D
SMV-R680-1.0-PW	ESCC 400102802R68F
SMV-1R00-0.5-PW	ESCC 4001028021R0D
SMV-1R00-1.0-PW	ESCC 4001028021R0F

* other resistance values on request

Ordering code

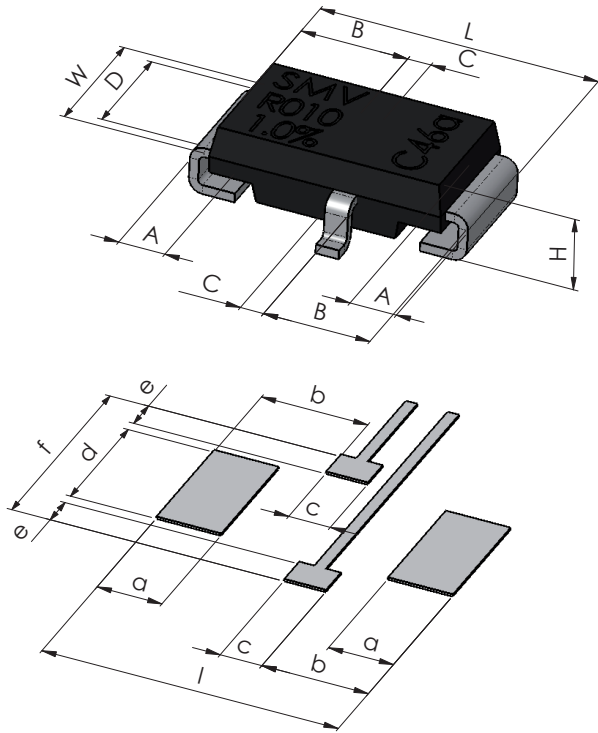
SMV - R010 - 1.0 - PW



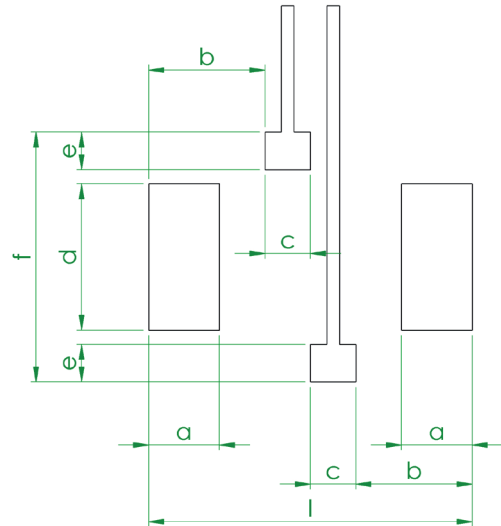


SMV-PW // Size 4723

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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