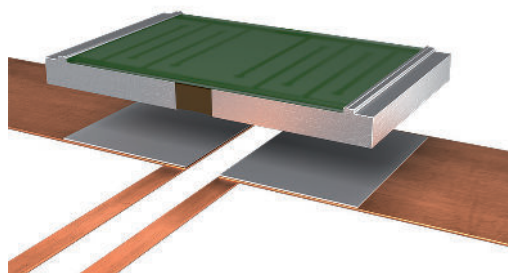


ISA-PLAN® // PRECISION RESISTORS

SMT-PW // Size 2817



Features

- 3 W permanent power at 130 °C
- Constant current up to 27 A (4 mΩm)
- Excellent long-term stability
- High pulse power rating
- Mounting: Reflow-, and IR-soldering
- *Detail specification ESCC 4001/027*
- SnPb tinned terminals

Applications

- Aerospace



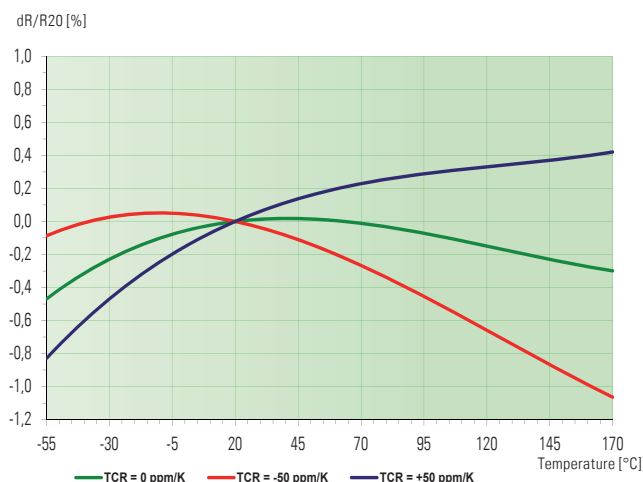
Technical data

Resistance values	0hm	0.004 to 2 *	
Tolerance	%	0.5 / 1 *	
Temperature coefficient		<10 mΩm	≥10 mΩm
-55 °C to +22 °C	ppm/K	-140, +0	-100, +0
+22 °C to +170 °C		±100	±60
+22 °C to +60 °C		±100	±50
Applicable temperature range	°C	-55 to +170	
Power rating	W	3	
Stability (nominal load) deviation after 2000h, acc. to ESCC Generic Specification		±0.2% (T _K =130 °C)	

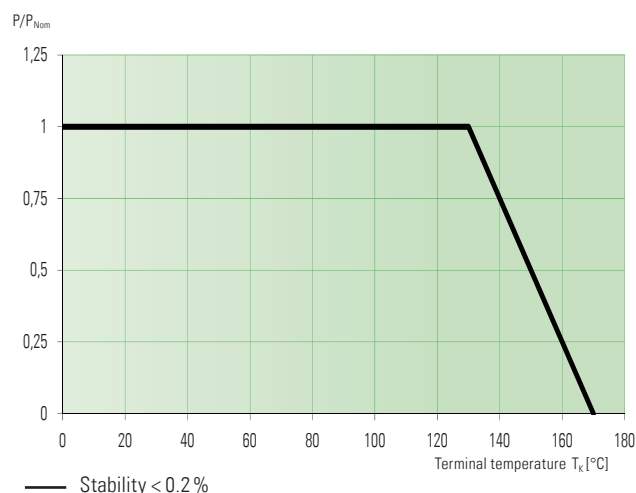
* For detailed information see table on page 2

T_K = terminal temperature

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



Power derating curve





SMT-PW // Size 2817

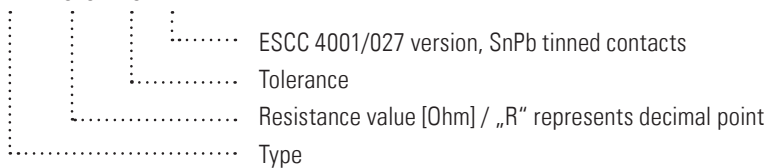
Available standard resistance values and tolerances *

Ordering code	ESCC component number	Ordering code	ESCC component number
SMT-R004-1.0-PW	400102706R004F	SMT-R150-1.0-PW	400102703R150F
SMT-R005-0.5-PW	400102706R005D	SMT-R180-0.5-PW	400102703R180D
SMT-R005-1.0-PW	400102706R005F	SMT-R180-1.0-PW	400102703R180F
SMT-R008-0.5-PW	400102706R008D	SMT-R200-0.5-PW	400102703R200D
SMT-R010-0.5-PW	400102703R010D	SMT-R220-0.5-PW	400102703R220D
SMT-R010-1.0-PW	400102703R010F	SMT-R220-1.0-PW	400102703R220F
SMT-R015-0.5-PW	400102703R015D	SMT-R270-0.5-PW	400102703R270D
SMT-R018-0.5-PW	400102703R018D	SMT-R270-1.0-PW	400102703R270F
SMT-R020-0.5-PW	400102703R020D	SMT-R330-0.5-PW	400102703R330D
SMT-R020-1.0-PW	400102703R020F	SMT-R330-1.0-PW	400102703R330F
SMT-R022-0.5-PW	400102703R022D	SMT-R390-1.0-PW	400102703R390F
SMT-R022-1.0-PW	400102703R022F	SMT-R470-0.5-PW	400102703R470D
SMT-R025-1.0-PW	400102703R025F	SMT-R470-1.0-PW	400102703R470F
SMT-R027-0.5-PW	400102703R027D	SMT-R500-0.5-PW	400102703R500D
SMT-R030-0.5-PW	400102703R030D	SMT-R560-1.0-PW	400102703R560F
SMT-R033-1.0-PW	400102703R033F	SMT-R680-0.5-PW	400102703R680D
SMT-R039-0.5-PW	400102703R039D	SMT-R820-1.0-PW	400102703R820F
SMT-R039-1.0-PW	400102703R039F	SMT-1R00-0.5-PW	4001027031R00D
SMT-R040-1.0-PW	400102703R040F	SMT-1R00-1.0-PW	4001027031R00F
SMT-R047-0.5-PW	400102703R047D	SMT-2R00-0.5-PW	4001027032R00D
SMT-R047-1.0-PW	400102703R047F	SMT-2R00-1.0-PW	4001027032R00F
SMT-R050-0.5-PW	400102703R050D		
SMT-R050-1.0-PW	400102703R050F		
SMT-R056-0.5-PW	400102703R056D		
SMT-R060-0.5-PW	400102703R060D		
SMT-R068-1.0-PW	400102703R068F		
SMT-R082-0.5-PW	400102703R082D		
SMT-R100-0.5-PW	400102703R100D		
SMT-R100-1.0-PW	400102703R100F		
SMT-R120-1.0-PW	400102703R120F		

* other resistance values on request

Ordering code

SMT - R010 - 1.0 - PW





SMT-PW // Size 2817

Recommended solder profile

Reflow- and IR-soldering

Temperature	°C	260	255	217
Time	sec	peak	40	90

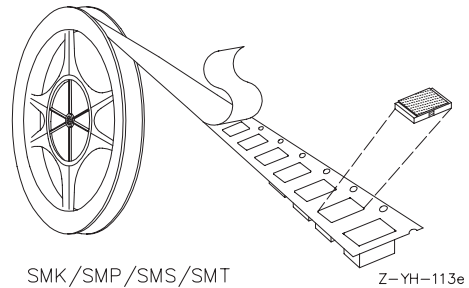
Packaging information

Specification	DIN EN 60286-3			
Tape width	mm	12		
Reel size	inch	13		

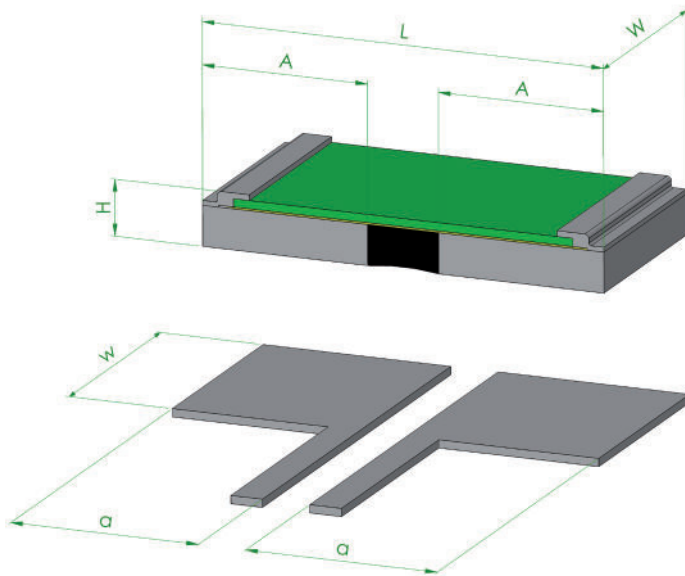
Form of delivery

Tape	pcs	up to 500		
Tape and reel	pcs	>500		

Slight deformations during soldering do not affect technical properties of the component.



Mechanical dimensions and pcb-layout proposal (Reflow-soldering) [mm] // Z-YE-1019a



type	L	W	H	A
SMT	7.1 ± 0.2	4.2 ± 0.1	0.8 ± 0.2	3.1

solder pad type:	l	w	a
SMT	7.4	4.6	3.4

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