



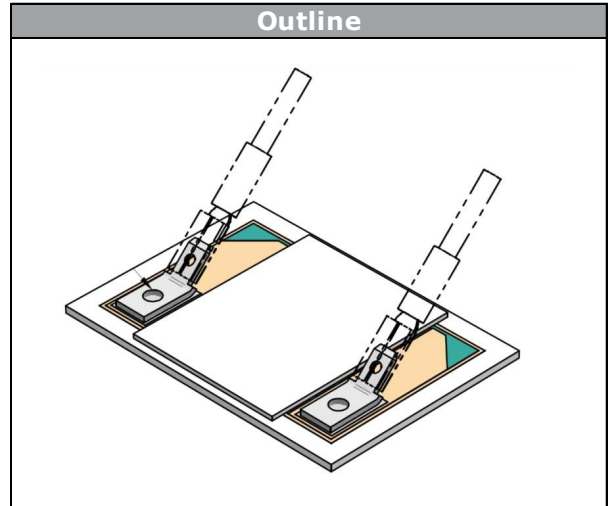
Inrush current resistor

400 Ω / 200 Ws

Features

- Ultra low profile thick-film on ceramic
- 2 kW peak power
- Easy spring fixing heatsink mountable
- Ideal for dynamic braking
- Available with fast-on terminals
- Pulse handling Capability
- Non-flammable construction
- Optional preapplied phase-change material available

Outline



Specification

Parameter	Symbol	Condition	Value	Unit
Resistance	R		400	Ω
Tolerance			±20	%
Energy	E	$P_{max} = 2 \text{ kW}/100 \text{ ms}; T_s = 100 \text{ °C}, f = 50 \text{ N}$ (pressure to heatsink)	200	Ws
Power	P	$T_s = 100 \text{ °C}, f = 50 \text{ N}$ (pressure to heatsink)	100	W
Isolation Voltage	V_t	Isolation to heatsink	4000	V
Maximum Junction Temperature	T_{jmax}	Limited by thermal paste	125	°C

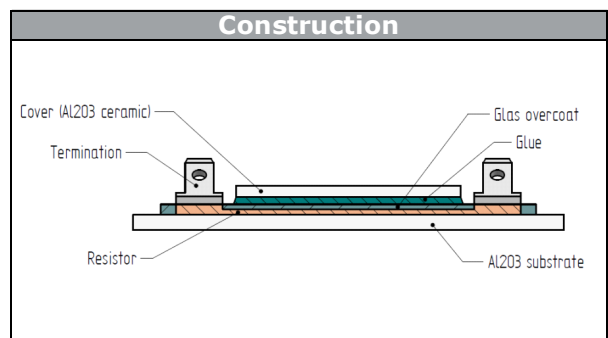
Notes:

Repetitive energy on heatsink 200 Ws mounted on heatsink with preapplied phase change material with no forced air cooling ($T_s = 100 \text{ °C}, T_a = 25 \text{ °C}$)

Mounted with spring

recommended spring force: min. 50 N
 press down / fixing is recommended in the middle of the cover substrate on a minimum of dia. 7 mm circular area.
 Recommended surface roughness of the heatsink: $R_z < 0.01 \text{ mm}$

Construction





Qualification

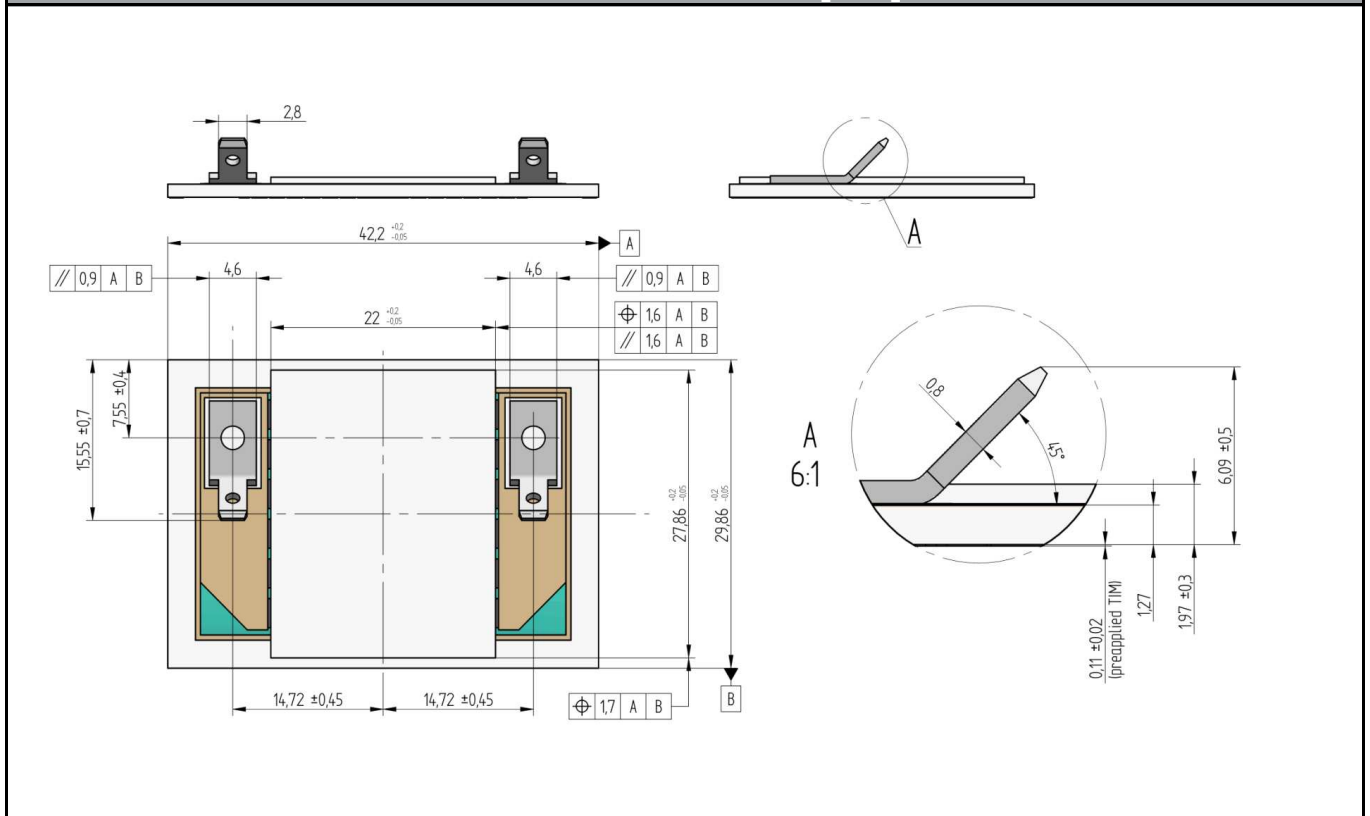
Technology Qualification

Test Item	Test Conditions	Standard
Temperature Shock (TS)	T_{STGmin} / T_{STGmax} : -40 °C/+125 °C	DIN EN 60068-2-14
	100 cycles	Test Na
	$t_{dwell} = 30$ min (dwell time at each temperature)	MIL-STD-883E
	$t_{change} < 30$ sec (temperature change time)	Method 1010

Component Qualification

Test Item	Test Conditions	Standard
High Temperature	$T_{STG} = T_{jmax}$	DIN EN 60068-2-2
Storage (HTS)	$T_{STG} = 125$ °C	
	$t = 1000$ h (2*500h)	
High Humidity	$T_{STG} = 85$ °C; RH = 85%	DIN EN 60068-2-67
High Temperature		
Storage (HHHTS)	$t = 1000$ h (2*500h)	


Mechanical Dimension [mm]





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S30814-Q992-A
datasheet

Ordering Code & Marking			
Version	Ordering Code	in packaging barcode as	
with thermal paste	S30814-Q992-A-/3/	Q992-A	
 Q992-A 51 12345 0514	Text	Name	Ver
		Q992-A	51
		Date code	
		0514	
		Lot	12345



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Packaging instruction					
Standard packaging quantity (SPQ)	294	>SPQ	Standard	<SPQ	Sample

Handling instruction	
For handling instructions see vincotech.com website.	

Document No.:	Date:	Modification:	Pages
S30814-Q992A-D1-14	13 Jun. 2017		

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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.