

德国ISABELLENHTTE精密电阻制造公司

宇航级、军用级精密电阻

ISABELLENHTTE公司高性能精密电阻获得欧空局ESA的ESCC认证
广泛用于欧洲航天器、航空器、坦克等
以及美国宇航局航天器

中国地区代理商 海纳中创科技（北京）有限公司
中国区代表 申春晓 +86 13701102049

LOW-OHMIC PRECISION AND POWER RESISTORS SPACE & MILITARY APPLICATIONS



LOW-OHMIC PRECISION AND POWER RESISTORS SPACE & MILITARY

Introduction //

ESCC - Qualification //

Products //

Customers //

ISABELLENHÜTTE HEUSLER GMBH & CO. KG



- Isabellenhütte has been supplying qualified sensing resistors to the aerospace and military industry for more than 10 years
- Component qualification according to different customer requirements and specifications (ETC, MA, RA, etc.)
- SnPb-tinned contacts, applicable to different resistor series



Aerospace applications

Galileo – Satellite „GIOVE-A“ Navigation system

First space launch 28th December 2005,
in total 30 satellites until 2013



Solar panel – different satellites, battery management system



Jules Verne – European space shuttle ATV
(Automated Transfer Vehicle)



Foto: NASA

Columbus – Space laboratory of ESA /EADS



Product applications



ESCC-qualification of resistors



Specialised test equipment:

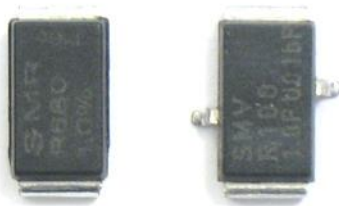
- Climate chamber for different tests and investigation, e.g. thermal shock, load-life, temperature coefficient, moisture sensitivity
- Data recording instruments

ESCC-qualification of resistors



- Method of qualification: “Qualification Approval“
- Time frame of qualification: 01.11.2005 to 31.10.2007
- Zertificate: 285B July 2014
- Qualified resistor series:

SMR // SMV



Size: 4723

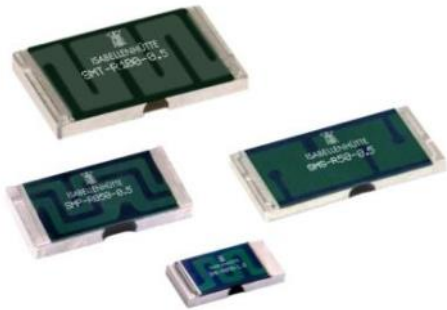
SMT // SMS // SMP



Size: 2817 // 2512 // 2010

Low-ohmic precision and power resistors for space & military applications made by Isabellenhütte

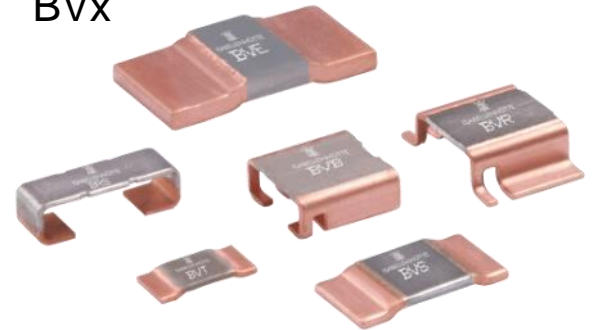
SMx



SMR / SMV



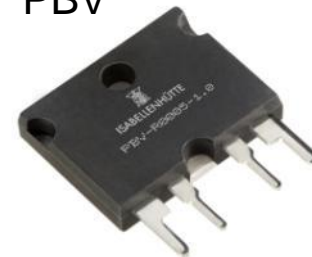
BVx



PMB



PBV



ESCC-qualification of resistors



europaean space agency
agence spatiale européenne

Certificate of Qualification No. 285B

This is to certify that ISABELLENHÜTTE HEUSLER GmbH & Co. KG, Germany has been qualified by ESA for the supply of Resistors, Fixed, Chip, Metal Foil, Based on Types SM⁺-PW and SM⁺-PT for use in ESA space programmes, according to ESCC Generic Specification 4001 and associated Detail Specifications 4001/027 and 4001/028 as recommended by the Space Components Steering Board.

This certificate is valid until July 2014.

Head of the Product Assurance
and Safety Department

Date

15 February 2013



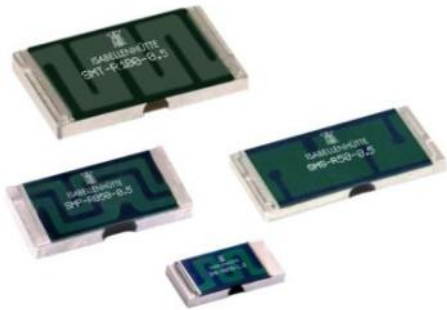
ISABELLENHÜTTE

Innovation aus Tradition

Low-ohmic precision and power resistors for space & military applications made by Isabellenhütte



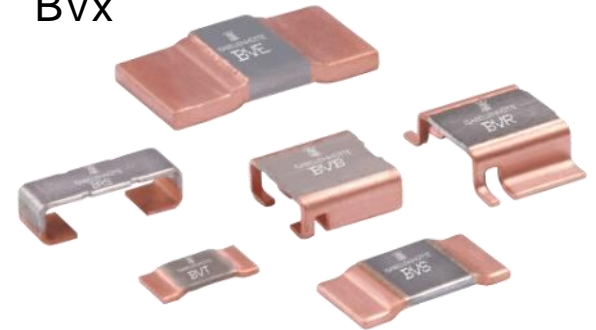
SMx



SMR / SMV



BVx



PMB



PBV



Low-ohmic precision and power resistors for space & military applications made by Isabellenhütte



SMP	SMS	SMT	SMV
SMP-R010-0.5-PW	SMS-R010-0.5-PW	SMT-R010-0.5-PW	SMV-R0033-1.0-PW
SMP-R020-1.0-PW	SMS-R010-1.0-PW	SMT-R010-1.0-PW	SMV-R005-1.0-PW
SMP-R033-1.0-PW	SMS-R020-1.0-PW	SMT-R015-0.5-PW	SMV-R0068-1.0-PW
SMP-R100-0.5-PW	SMS-R033-1.0-PW	SMT-R018-0.5-PW	SMV-R010-1.0-PW
SMP-R100-1.0-PW	SMS-R047-1.0-PW	SMT-R020-0.5-PW	SMV-R015-1.0-PW
SMP-R390-1.0-PW	SMS-R050-1.0-PW	SMT-R025-1.0-PW	SMV-R022-1.0-PW
SMP-R470-1.0-PW	SMS-R100-1.0-PW	SMT-R027-0.5-PW	SMV-R025-1.0-PW
SMP-R500-0.5-PW	SMS-R200-1.0-PW	SMT-R047-0.5-PW	SMV-R033-1.0-PW
SMP-1R00-1.0-PW	SMS-R220-1.0-PW	SMT-R050-1.0-PW	SMV-R050-1.0-PW
	SMS-R330-1.0-PW	SMT-R082-0.5-PW	SMV-R068-1.0-PW
	SMS-R470-1.0-PW	SMT-R180-0.5-PW	SMV-R100-1.0-PW
	SMS-R500-1.0-PW	SMT-R220-1.0-PW	SMV-R220-1.0-PW
	SMS-R680-1.0-PW	SMT-R820-1.0-PW	
	SMS-1R00-1.0-PW	SMT-1R00-0.5-PW	



Aerospace Defence Technology



KRAUSS-MAFFEI WEGMANN



PIONEERING WITH PASSION



AIRBUS



Lockheed Martin



Jet Propulsion Laboratory
California Institute of Technology



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