

# PERFORMANCE-CRITICAL RESISTORS FOR THE MOST DEMANDING SPACE/SATELLITE APPLICATIONS



**Flight-Tested Expertise.  
Precision Without Compromise.**

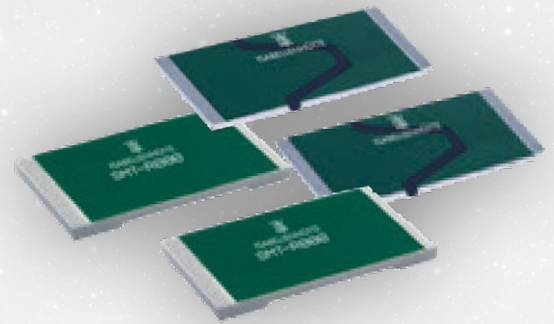


ISABELLENHÜTTE



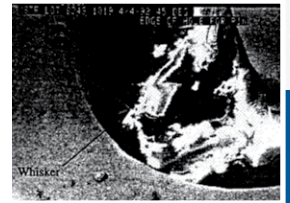
# A legacy of excellence in space

- Hundreds of mission-proven components
- Big performance in small footprints
- Powerful metallurgical, engineering, and manufacturing experience for co-development or custom needs
- Full control of production from smelting alloys to final testing
- Proven supply-chain partnerships with critical screening of finished components supporting sensitive aerospace missions
- Uncompromising quality and technical leadership



## Better metallurgical insights support demanding missions

Our engineers have a deep understanding of the unique issues faced by aerospace pioneers. For example, we have developed specialized alloys and resistors designed to prevent “tin whiskers”—an elusive point of failure for satellite components subjected to long missions.

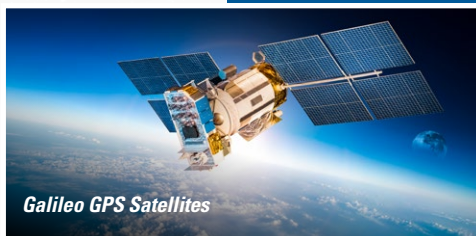


## We know what it takes to succeed in aerospace.

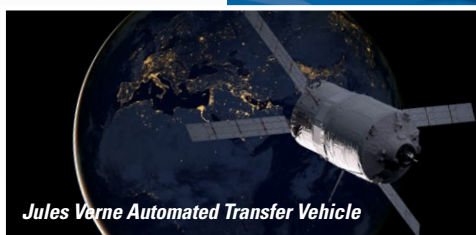
- Unmatched flight legacy with NASA
- ESCC 4001/027 and ESCC 4001/028 qualified (over 200 qualified parts)
- Dedicated production and QA for aerospace
- 100% traceable documentation and labelling



*JUICE - Jupiter Icy Moons Explorer*












*Galileo GPS Satellites*



*Jules Verne Automated Transfer Vehicle*

# Proven mission legacy... and even more to come.



Series	Size	Parts per reel	Resistance value [mΩ]										Rated power at 70°C
			0.01	0.1	1	10	100	1000	5000	100 000			
SMK 	1206	12,500				8	500					1 W	
SMP 	2010	10,000				5	1000					3 W	
SMS 	2512	5,000				5	1000					5 W	
SMT 	2817	5,000				4	4700					5-7 W	
VMI 	0805	15,000				10	100					0.65-1.1 W	
VMK 	1206	12,500				10	470					1.5 W	
VMP 	2010	12,500				5	1000					3 W	
VMS 	2512	9,000				5	1000					4 W	

Look for even more innovation and product development from our team in the future, including:

## MIL-SPEC resistors

A new level of ohmic range for our ISA-WELD® resistors

## High-resistance thick film technology

Enhanced performance for ISA-PLAN®

## Flexible heaters, flow sensors, and antennas

New ISA-FLEX® product line

**Call to inquire about soldering/qualification samples for qualified customers.**



## Easy to order

PHONE

**(508) 673 2900**

EMAIL

**sales@isabellenuetteusa.com**

*Supplier Quality Assurance Requirements*





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