

6.10 RESISTORS (10)

6.10.1 Shunts

RESISTORS, FIXED, CHIP, METAL FOIL, BASED ON TYPES SMP-PW, SMS-PW, SMT-PW and SMV-PW.				285F
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 4001	ISABELLENHÜTTE HEUSLER GmbH & Co. KG Dillenburg Germany	Qualification	DLR	Nov 2008
Detail ESCC 4001/027 4001/028		Remarks		
<p>Qualified range:</p> <p>ESCC 4001/027 variants 01, 02, 03, 04, 05, 06 are qualified (SMP-PW, SMS-PW, SMT-PW) ESCC 4001028 variant 02 is qualified (SMV-PW)</p> <p>Tolerance (%) = ±1</p> <p>Operating Temperature Range (°C): -55 to +170</p>				



European Space Agency
Agence spatiale européenne

Certificate of Qualification No. 285F

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 SMP-PW, SMS-PW, SMT-PW and SMV-PW 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 2022.

**Head of the Product Assurance
and Safety Department**

**Date
29 September 2020**