SURFACE MOUNT TECHNOLOGY (SMT) METALLIZED ELECTRODE FACE - MELF METALLIZED ELECTRODE FACE (MELF) The Metallized Electrode Face (MELF) termination is characterized as a cylindrical package with metallized end caps, and is commonly used for the packaging of discrete diodes, capacitors, and resistors. Since they are cylindrical, the MELF does not have to be placed with the resistive elements facing away from the board surface, as is the case with rectangular chip packages. Like their throughhole axial cousins, MELFs are typically colorcoded for value. See Section 7.01 "Surface Mount Soldering, General Requirements", for common accept / reject criteria. ٠w PREFERRED PREFERRED END JOINT WIDTH (C) The termination exhibits a concave fillet on the terminal faces, with evidence of good wetting to The End Joint Width (C) shall be equal to or greater than the component width (W) or width of the metallization and the periphery of the land. the land (P), whichever is less. NASA-STD-8739.2 [8.7.4], [12.9.6] Best Workmanship Practice 1/2 W 1/2 W C > 1/2 W → - C < 1/2 W ACCEPTABLE UNACCEPTABLE INSUFFICIENT END JOINT WIDTH (C) END JOINT WIDTH (C) The width of the end joint shall not be less than The End Joint Width (C) shall be \geq 50% of the component width (W) or width of the land (P), 50% of the component width (W), or land width whichever is less. (P), whichever is less. Best Workmanship Practice Best Workmanship Practice NASA WORKMANSHIP STANDARDS Revision: Revision Date: Released: NATIONAL AERONAUTICS AND 06.27.2002 SPACE ADMINISTRATION

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