

MSK DWG. NO.
1021-1629

REV.
E

SHEET
1 OF 4

SCALE
NTS

SIZE
A

REVISIONS

REV.	ECO NO.	DESCRIPTION OF UPDATE	APPROVED	DATE
-	RLSD		D. M.	10/87
A	2824		C. HEISELMAN	05/92
B	3185		C. HEISELMAN	12/08/92
C	5227		C. HEISELMAN	07/10/96
D	11715		C. HEISELMAN	07/11/04
E	16865	Add 3.1.3 flow down to subtier	<i>[Signature]</i>	01/21/10



REVISION INDEX	REVISION	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
	SHEET																															
	REVISION	E	E	E	E																											
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	

PROPRIETARY NOTICE

This document is Proprietary Data of the M.S. Kennedy Corp. The information contained herein shall not be reproduced, used or disclosed to others without the authorization of M.S. Kennedy Corporation.

DO NOT SCALE DRAWING	APPROVALS	FSCM NO.	MSK M.S. KENNEDY CORPORATION LIVERPOOL, NEW YORK 13088	DOCUMENT CONTROL STAMP
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLE ± - ± - ± -	DRAFTER J. VANDEUSEN DATE 01/11/10	5	TITLE CERTIFICATION/ACCEPTANCE PROCUREMENT FOR POLYMERIC MATERIALS	
	DRAFTING CHECK <i>[Signature]</i> DATE 1/21/10			
MATERIAL N/A	ENGINEERING CHECK <i>[Signature]</i> DATE 1-21-10	6		
FINISH N/A	QUALITY ASSURANCE <i>[Signature]</i> DATE 1/21/10	5		
		1	MSK DWG. NO. 1021-1629	REV. SHEET E 1 OF 4

1.0 PURPOSE:

The purpose of this document is to define the vendor requirements of all procured polymeric materials used in M.S. Kennedy microcircuits.

2.0 APPLICATION:

This procedure shall apply to all polymeric materials as follows:

2.1 Condition "A" - polymeric material intended to be used in full compliance with MIL-PRF-38534 and shall pass the certification tests of MIL-STD-883 Method 5011.

2.2 Condition "B" - polymeric material intended to be used in full compliance with MIL-PRF-38534 and shall pass the acceptance tests of MIL-STD-883 Method 5011.

2.3 Condition "C" - polymeric material to be used on customer source control drawing or MSK standard product which do not impose MIL-PRF-38534 or MIL-STD-883 Method 5011 requirements.

2.4 Condition "D" - polymeric material intended to be used in full compliance with MIL-PRF-38534 where M.S. Kennedy is responsible for the certification and/or acceptance tests of MIL-STD-883 Method 5011.

2.5 Conflicting requirements:

In the event of conflict between requirements of this specification and other requirements, the following shall apply in order of precedence:

- a. Purchase order
- b. Detail drawing
- c. This specification
- d. Other documents referenced

2.6 Definitions:

2.6.1 Type I - electrically conductive.

2.6.2 Type II - electrically non-conductive or insulative.


3.0 REQUIREMENTS:

3.1 General:

3.1.1 The vendor must have a quality system that meets or exceeds requirements of MIL-I-45208, ISO9001 or AS9100 (or equivalent) and a calibration system that meets MIL-STD-45662/ANSI/NCSL Z540-1, ISO10012-1/ISO10012-2 or equivalent.

3.1.2 The vendor shall notify M.S. Kennedy in writing of any Class I (major) change of product or process as defined in MIL-STD-480 and/or MIL-PRF-38534 Configuration Control.


3.1.3 The manufacturer shall flow down any applicable requirements to the sub-tier supplier.

DO NOT SCALE DRAWING	APPROVALS		FSCM NO.		M.S. KENNEDY CORPORATION LIVERPOOL, NEW YORK 13088	DOCUMENT CONTROL STAMP	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLE ± - ± - ± - ± -	DRAFTER	DATE	5		TITLE CERTIFICATION/ACCEPTANCE PROCUREMENT FOR POLYMERIC MATERIALS		
	DRAFTING CHECK	DATE	1				
MATERIAL N/A	ENGINEERING CHECK	DATE	6				
FINISH N/A	QUALITY ASSURANCE	DATE	5				
			1	MSK DWG. NO. 1021-1629	REV. E	SHEET 2 OF 4	DEPARTMENT / COPY NO.

- 3.1.4 The vendor shall verify that Condition "A" and "B" polymeric materials are certified to and comply with MIL-STD-883 Method 5011 and all test methods referenced therein.
- 3.1.5 The vendor shall have evidence of a working operator training and certification program. This program shall also include a written description of each process available to the operator.
- 3.1.6 The polymeric materials shall be packaged in such a way that the product is isolated from vibration or mechanical shock that may cause degradation or damage. The package in which the product is shipped shall have an internal environment that is similar to that which it is stored in (i.e. material to be stored at -40°C may be packed in dry ice).
- 3.1.7 Certificate of Compliance shall be signed by a responsible vendor official and shall be enclosed with the following minimum information:
 - a. Polymeric material part number
 - b. Manufacturer's name and address
 - c. Amount of material
 - d. Purchase order number
 - e. Applicable MSK drawing number and revision level
 - f. Batch/log number
 - g. Manufacturer's certification and acceptance test data (as applicable to the stated condition specified on the PO).
- 3.1.8 M.S. Kennedy, MSK's Customer or Regulatory Agency reserves the right to review any vendor program, process and data to assure conformance to the requirements of this specification, the purchase order and the applicable MSK source control drawing.
- 3.1.9 Expiration date of the material shall be clearly marked on the packaging or container.

4.0 CONDITION "A", POLYMERIC MATERIAL SUPPLIER REQUIREMENTS FOR LOT CERTIFICATION:

- 4.1 The supplier shall perform the certification requirements to MIL-STD-883 Method 5011 (applicable material type) to ensure compliance with the applicable MSK source control drawing.
- 4.2 The supplier shall provide a Certificate of Compliance for each order. The certificate shall contain, in addition to para 3.1.7, the actual test data as required in Method 5011. The written evidence will contain the following information:
 - a. Part and lot or batch number of the material
 - b. Name or title of operation and specification number of each process or test.
 - c. Date(s) of operation or test and operator identification.
 - d. Calibration control number (serial number) of all major equipment used for test.
 - e. Quantity tested and accept/reject status for each operation.
 - f. Specific major conditions of the test or process that are verifiable by operator including times, temperatures, optical inspection magnification and relative humidity.

DO NOT SCALE DRAWING	APPROVALS		FSCM NO.	 M.S. KENNEDY CORPORATION LIVERPOOL, NEW YORK 13088	DOCUMENT CONTROL STAMP
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLE ± - ± - ± - ± -	DRAFTER	DATE	5	TITLE	
	DRAFTING CHECK	DATE			
MATERIAL	ENGINEERING CHECK	DATE	6	CERTIFICATION/ACCEPTANCE PROCUREMENT FOR POLYMERIC MATERIALS	
N/A			5		
FINISH	QUALITY ASSURANCE	DATE	1	MSK DWG. NO. 1021-1629	REV. E
N/A				SHEET 3 OF 4	DEPARTMENT / COPY NO.

5.0 CONDITION "B", POLYMERIC MATERIAL SUPPLIER REQUIREMENTS FOR LOT ACCEPTANCE:

- 5.1 The supplier shall perform the acceptance requirements to MIL-STD-883 Method 5011 (applicable material type) to ensure compliance with the applicable MSK source control drawing.
- 5.2 The supplier shall provide a Certificate of Compliance for each order. The certificate shall contain, in addition to para 3.1.7, the actual test data as required in Method 5011. The written evidence will contain the following information:
 - a. Part and lot or batch number of the material
 - b. Name or title of operation and specification number of each process or test.
 - c. Date(s) of operation or test and operator identification.
 - d. Calibration control number (serial number) of all major equipment used for test.
 - e. Quantity tested and accept/reject status for each operation.
 - f. Specific major conditions of the test or process that are verifiable by operator including times, temperatures, optical inspection magnification and relative humidity.

6.0 CONDITION "C" & "D", POLYMERIC MATERIAL SUPPLIER REQUIREMENTS:


- 6.1 The supplier shall perform the acceptance requirements to its own internal data requirements and shall ensure compliance with the applicable MSK source control drawing.
- 6.2 The supplier shall provide a Certificate of Compliance in accordance with para 3.1.7 herein.

7.0 ACCEPT/REJECT CRITERIA:

- 7.1 A polymeric material which fails any certification or acceptance tests described herein shall constitute a failure and the batch/lot shall be rejected.

8.0 REFERENCES:

- 8.1 MIL-STD-883 Test Methods and Procedures for Microelectronics
- 8.2 Applicable Source Control Drawing
- 8.3 M.S. Kennedy Purchase Order
- 8.4 MIL-PRF-38534 General Specification for Microcircuits.
- 8.5 DOD-STD-480 Military Standard, Configuration Control Engineering Changes, Deviations and Waivers
- 8.6 MIL-I-45208, ISO9001 or AS9100
- 8.7 MIL-STD-45662, ANSI/NCSL Z540-1, ISO10012-1/ISO10012-2 or equivalent Calibration System Requirements

DO NOT SCALE DRAWING	APPROVALS		FSCM NO.		M.S. KENNEDY CORPORATION LIVERPOOL, NEW YORK 13088	DOCUMENT CONTROL STAMP
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLE ± - ± - ± - ± - ± - ± -	DRAFTER	DATE	5	TITLE CERTIFICATION/ACCEPTANCE PROCUREMENT FOR POLYMERIC MATERIALS		
	DRAFTING CHECK	DATE				
	ENGINEERING CHECK	DATE	6	DEPARTMENT / COPY NO.		
	FINISH	DATE	5			
MATERIAL N/A	QUALITY ASSURANCE	DATE	1	MSK DWG. NO. 1021-1629	REV. E	SHEET 4 OF 4