

# TMC SPECIFICATION

NO. S1414

REV:

COMPILED:

R. UZZO

CHECKED:

APPD:

SHEET

OF

TITLE:

CONFIGURATION ITEM VERIFICATION REVIEW CIVR VALIDATION REPORT

CONFIGURATION ITEM VERIFICATION  
REVIEW (CIVR) VALIDATION REPORT

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NO. S1414

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## I GENERAL INFORMATION

- a) CONTRACTOR - - - - - TECHNICAL MATERIEL CORPORATION  
700 FENIMORE ROAD  
MAMARONECK, NEW YORK 10543
- b) CONTRACT ORDER NUMBER - - DAAB07-81C-1131  
ITEM NO. 0008AB FOR ITEM 003
- c) NOMENCLATURE - - - - - REPLY DISCRIMINATOR ASSEMBLY  
P/O AN/TPX - 46 (V)  
DRAWING NO. SM-D-586701  
NSN 5895-00-199-7054

(EQUIPMENTS OF ESTABLISHED DESIGN)

- d) FIRST ARTICLE - - - - - STOCK NO. REPRESENTED BY 001 & 002
- e) FIRST ARTICLE FABRICATED AT:  
TECHNICAL MATERIEL CORPORATION  
700 FENIMORE ROAD  
MAMARONECK, NEW YORK 10543

## II REFERENCE DATA:

- a) MIL-P-11268K (ARMY)  
MIL-STD-252B PAGES 15, 16, 17 (PRINTED WIRING BOARD)  
MIL-STD-105D  
MIL-M-13231A  
MIL-STD-454
- b) LIST OF PROPOSED SOURCES OF STANDARD ITEMS
- c) STATEMENT OF COMPLIANCE
- d) GOVERNMENT FURNISHED DRAWINGS
- e) AMP SPECIAL INDUSTRIES BULLETIN 703-3
- f) TMC SPECIFICATION S1394
- g) SMA 595922 REQUIREMENTS FOR CIRCUIT CARD ASSEMBLIES

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## 1. PURPOSE:

TO ASSURE THAT THE PARTS, MATERIALS AND PROCESSES USED IN SMD586701 ASSEMBLY ARE THOSE SPECIFIED ON THE GOVERNMENT FURNISHED DRAWINGS OR SPECIFICATIONS.

## 2. COMPLIANCE

ALL COMPONENTS USED IN THE MANUFACTURE OF SM-D-586701 REPLY DISCRIMINATOR ASSEMBLY MEET THE REQUIREMENTS AND STATED ON DRAWING PLSM-586701. FOR EACH COMPONENT USED A CERTIFICATE OF COMPLIANCE IS AVAILABLE ALONG WITH TMC'S PURCHASE ORDER ON ALL MATERIALS.

## 3. INCOMING MATERIAL CONTROL PROCEDURES

ALL MATERIAL IS COMPARED WITH THE RECEIVING REPORT. VERIFICATION OF VENDOR, QUANTITIES, PART NUMBERS AND ACCURACY OF CERTIFICATES OF COMPLIANCE IS REVIEWED.

BEFORE MATERIALS ARE ISSUED ON THE PRODUCTION FLOOR A SAMPLING TEST OF MATERIALS ARE PERFORMED.

3. a. PRINTED WIRING BOARD SM-D-586601 WAS INSPECTED IN ACCORDANCE WITH GOVERNMENT SUPPLIED DRAWINGS (SM-D-586601) SHEETS 1, 2 AND 3) ALSO MIL-STD-252B PAGES 15, 16 AND 17.

CAPACITORS C1, C2, C3 AND C4 HAVE BEEN INSPECTED USING THE INSPECTION METHOD (REF. MIL-STD-105) TMC STANDARD QA3008.

M21097/15-13 (P1) CONNECTOR WAS INSPECTED, USING AS A GUIDE AMP SPECIAL INDUSTRIES PRODUCT BULLETIN 703-3 PRINTED CIRCUIT AND ELECTRONIC PACKAGING PRODUCTS.

CONNECTOR SM-D-586472 WAS INSPECTED IN ACCORDANCE WITH THE GOVERNMENT SUPPLIED DRAWING SM-D-586472.

ALL THE INTERGRATED CIRCUITS U1 THROUGH U15 WERE EXAMINED, USING THE INSPECTION METHOD REF. (MIL STANDARD 105) TMC STANDARD QA3008 AND MIL STANDARD 454 REQUIREMENT 64.

VARIABLE RESISTORS R1 AND R2 (M39015/2-0079) AND FIXED RESISTORS R3 AND R4 (RNC55H1002FM) WERE INSPECTED USING THE INSPECTION METHOD. (REF. MIL-STD-105) TMC STANDARD QA3008.

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## 4. ASSEMBLING PROCEDURE

ALL COMPONENT PARTS FOR THE (REPLY DISCRIMINATOR ASSEMBLY) HAVE BEEN ASSEMBLED AS PER DRAWING SM-D-586701. ALL COMPONENTS ARE HAND SOLDERED IN ACCORDANCE WITH MIL STD 454 REQUIREMENT 5, AND THE METHOD OF ASSEMBLY CONFORMS WITH "GENERAL REQUIREMENTS FOR CIRCUIT CARD ASSEMBLIES" SM-A-595922.

## 5. MARKING PROCESS

MARKING PROCESS CONFORMS TO MIL-M-13231A, AS NOTED ON ASSEMBLY DRAWING SM-D-586702, NOTE 4.

## 6. CONFORMAL COATING

PROTECTIVE COATING PROCESS CONFORMS TO SM-A-587204 AND TMC SPECIFICATION S1394.

## 7. CONTRACTOR TESTING

FIRST ARTICLE APPROVAL CONTRACTOR TESTING WAS PERFORMED MARCH 28, 1983 FOR THE REPLY DISCRIMINATOR ASSEMBLY SMD586701. TEST SPECIFICATION SMA587233 WAS USED AS A GUIDE FOR TESTING. NO DISCREPANCIES WERE FOUND IN PERFORMING THE REQUIRED TESTS. THE FOLLOWING ARE SPECIFIC REPLIES OR ANSWERS TO THE QUESTIONS ASKED IN THE TEST SPECIFICATION. OUTLINED IN THE FOLLOWING PARAGRAPHS ARE THE SMA587233 PARAGRAPH NUMBERS WHERE AN ANSWER IS NECESSARY.

SMA587233  
PARAGRAPH  
NUMBERS

3.2.2.2 TEST NO.1 REPLY PIN 4 OUTPUT MONITORS LOW AT TIME 5  
HIGH AT TIME 8

3.2.3.2 TEST NO.2 REPLY PIN 4 OUTPUT MONITORS LOW AT TIME 5 & 8  
HIGH AT TIME 11

SMA587233  
PARAGRAPH  
NUMBERS

3.2.4.2 TEST NO.3 REPLY PIN 4 OUTPUT MONITORS LOW AT TIME 8&11  
HIGH AT TIME 14

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- 3.2.5.2 TEST NO.4 REPLY PIN 4 OUTPUT MONITORS LOW AT TIME 8  
HIGH AT TIME 11
- 3.2.6.2 TEST NO.5 TEST POINT J1-6 MONITORS HIGH LEVEL
- 3.2.7.2 TEST NO.6 ODD/EVEN PIN-18 MONITORS LOW AT TIME 7 and 10
- 3.2.8.2 TEST NO.7 ODD/EVEN PIN 18 MONITORS HIGH AT TIME 10 & 13
- 3.2.9 TEST NO.8 OUTPUT PIN 32 MEASURES THE INVERSE OF THE LEVEL  
AT INPUT PIN 31 WHEN A HIGH AND LOW LEVEL IS APPLIED.  
OUTPUT PIN 25 MEASURES THE INVERSE OF THE LEVEL  
AT INPUT PIN 30 WHEN A HIGH AND LOW LEVEL IS APPLIES.
- 3.2.10 TEST NO.9  
FOR EACH ROW OF INPUTS LISTED BELOW THE APPROPRIATE  
OUTPUT IS MONITORED AT OUTPUT PIN 38.

| INPUT PINS |           |           |           |           | OUTPUT PIN  |
|------------|-----------|-----------|-----------|-----------|-------------|
| <u>33</u>  | <u>34</u> | <u>35</u> | <u>36</u> | <u>37</u> | <u>38</u>   |
| HIGH       | HIGH      | HIGH      | HIGH      | HIGH      | <u>HIGH</u> |
| LOW        | HIGH      | HIGH      | HIGH      | HIGH      | <u>LOW</u>  |
| HIGH       | LOW       | HIGH      | HIGH      | HIGH      | <u>HIGH</u> |
| HIGH       | HIGH      | LOW       | HIGH      | HIGH      | <u>HIGH</u> |
| HIGH       | HIGH      | HIGH      | LOW       | HIGH      | <u>HIGH</u> |
| HIGH       | HIGH      | HIGH      | HIGH      | LOW       | <u>LOW</u>  |

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TOOK PLACE AT:

THE TECHNICAL MATERIEL CORPORATION  
700 FENIMORE ROAD  
MAMARONECK, NEW YORK 10543

DATE \_\_\_\_\_

WITNESSED BY:  
TMC REPRESENTATIVE

WITNESSED BY:  
GOVERNMENT REPRESENTATIVE

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