7. (ce) MAXIMUM TORQUES UNIT SHALL BE CAPABLE OF WITHSTANDING:

A. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH ND 100219, CLASS I, COOE 1.

1. MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING AS SPECIFIED IN ND 100219.

2. ACCEPTANCE AND INSPECTION: (10% UNLESS OTHERWISE SPECIFIED)

A. MECHANICAL PROPERTIES:

1) DIMENSIONS: AS DELINATE HEREIN.

2) LEAD MATERIAL: MELDABLE, GOLD PLATED IRON-NICKEL ALLOY (DUMET) PER ND 1005401. MATERIAL SHALL BE CERTIFIED BY THE VENDOR.

3) BEND TEST: (DISCARD TESTED UNITS), HOLD THE COMPONENT IN THE AXIAL DIRECTION FROM THE LEAD UNDER TEST. THE BEND CYCLE SHALL BE AN AXIAL PULL OF 450 MILLIAMPERES. THE LEADS SHALL BE FREE OF SOLDER.

B. ELECTRICAL CHARACTERISTICS:

1) INDUCTANCE RATING: FROM 10 MICROHENRIES TO 100 MICROHENRIES. THE INDUCTANCE SHOULD BE WITHIN 1% OF THE ORIGINAL VALUE.

2) Q-FACTOR: 50 MIN AT 15 MICROHENRIES AND 80 MIN AT 15 MICROHENRIES.

3) DC RESISTANCE: 1.9 OHMS MAX.

4) BEND TEST: AN AXIAL PULL OF 450 MILLIAMPERES. THE LEADS SHALL BE FREE OF SOLDER.

5) TEMPERATURE RISE: 35°C. SO THE AMBIENT CONDITIONS THE TEMPERATURE RISE WILL BE 35°C. THE VENDOR SUPPLIED DATA: EACH SHIPMENT SHALL BE ACCOMPANIED BY CERTIFICATE OF COMPLIANCE WITH SPECIAL CONDITIONING AND TEST DATA FROM SPECIAL CONDITIONING.

6) DISTINGUISHED CAPACITANCE:

7 MICROFARADS ± 15% AT 15 MICROHENRIES

6.6 MICROFARADS ± 15% AT 11 MICROHENRIES

6.1 MICROFARADS ± 15% AT 9 MICROHENRIES

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 100234 FOR THIS DRAWING.

C. VENDOR SUPPLIED DATA: EACH SHIPMENT SHALL BE ACCOMPANIED BY THE FOLLOWING DATA:

(1) CERTIFICATE OF COMPLIANCE TO ND 1015401.

(2) CERTIFICATE OF COMPLIANCE WITH LEAD MATERIAL.

(3) CERTIFICATE OF COMPLIANCE WITH SPECIAL CONDITIONING.

(4) TEST DATA FROM SPECIAL CONDITIONING.

D. INDUCTANCE-TEMP COEF: 150 PPM/°C FROM 0°C TO +70°C.

E. LEAD FATIGUE: EACH LEAD SHALL BE CAPABLE OF WITHSTANDING 30 CYCLES OF 125°C FOR 30 MIN, 25°C FOR 15 MIN, AND 55°C FOR 30 MIN. AFTER THE 6TH CYCLE PERFORM AN ADDITIONAL 55°C CYCLE AND WITHIN 1/2 HOUR THE INDUCTANCE SHOULD BE WITHIN 1% OF THE ORIGINAL VALUE.

F. LEAD CURRENT RATING (MAXIMUM): 450 MILLIAMPERES. UNDER THIS CONDITION THE TEMPERATURE RISE WILL BE 35°C. SO THE AMBIENT CONDITION THE TEMPERATURE RISE WILL BE 35°C. THE VENDOR SUPPLIED DATA: EACH SHIPMENT SHALL BE ACCOMPANIED BY CERTIFICATE OF COMPLIANCE WITH SPECIAL CONDITIONING AND TEST DATA FROM SPECIAL CONDITIONING.

G. OPERATING LIFE: 2000 HOURS MINIMUM AT MAXIMUM CURRENT AND TEMPERATURE RATINGS. THE ADJUSTMENT SCREW SHALL BE CAPABLE OF 100 CYCLES OF OPERATION. ONE CYCLE EQUALS ADJUSTMENT ALL THE WAY IN AND ALL THE WAY OUT.

H. CONSTRUCTION: PLASTIC CASE WITH AN ALUMINUM (LEAD SCREW) TUNING SHAFT WHICH CONTROLS THE BONDED FERRUS SLUG. THE UNIT SHALL HAVE AN ADEQUATE 1/8 INCH SEAL ON THE TUNING SHAFT TO PREVENT POTING AND MOISTURE PENETRATION.

I. OPERATING TEMPERATURE RANGE: 0°C TO +70°C.

J. CIRCUIT RATING (MAXIMUM): 450 MILLIAMPERES. UNDER THIS CONDITION THE TEMPERATURE RISE WILL BE 35°C. THE VENDOR SUPPLIED DATA: EACH SHIPMENT SHALL BE ACCOMPANIED BY CERTIFICATE OF COMPLIANCE WITH SPECIAL CONDITIONING AND TEST DATA FROM SPECIAL CONDITIONING.