

A. INTERPRET DRAWING IN ACCORDANCE WITH THE STANDARDS PRESCRIBED

B. UNITS SHALL MEET THE GENERAL REQUIREMENTS OF MIL-S-19500.

C. SUPPLIERS SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN ND 1015404, CLASS 2.

UNITS SHALL BE CAPABLE OF MEETING THE QUALIFICATION REQUIRE-

PACKING AND PACKAGING: UNIT PACKING AND PACKAGING IN ACCORDANCE WITH LEVEL A OF MIL-S-19491.

MARKING: UNIT PACKAGES AND EXTERIOR SHIPPING CONTAINERS SHALL BE MARKED PER MIL-STD-129 WITH THE MANUFACTURER'S NAME/OR SYMBOL AND TYPE DESIGNATION; THE NASA DRAWING NUMBER, DASH NUMBER AND REVISION LETTER SHALL ALSO BE INCLUDED. UNITS SHALL BE MARKED WITH THE MANUFACTURER'S SYMBOL/OR TYPE DESIGNATION WITH A BLACK BAND DENOTING CATHODE END.

(1) LEAD MATERIAL: SHALL BE IRON-NICKEL ALLOY PER ND PS 1015401: MATERIAL CERTIFICATION MUST ACCOMPANY EACH SHIPMENT. (2) LEAD BEND TEST: EACH LEAD SHALL BE CAPABLE OF WITHSTANDING A LEAD BEND TEST IN ACCORDANCE WITH MIL-STD-750, METHOD 2036, TEST CONDITION E. A WEIGHT OF 16 ± 1 OUNCES SHALL BE APPLIED TO EACH LEAD.

LEAD PULL TEST: EACH LEAD SHALL BE CAPABLE OF WITHSTANDING A LEAD PULL TEST IN ACCORDANCE WITH MIL-STD-750, METHOD 2036, TEST CONDITION A WITH A STRAIGHT AXIAL PULL OF FOUR (4) POUNDS MINIMUM FOR ONE (1) MINUTE.

NO MECHANICAL DAMAGE OR LACK OF PERFORMANCE SHALL BE EVIDENCED AFTER THESE TESTS.

(3) REVERSE LEAKAGE CURRENT (IR) PER TABLE I.

A. OPERATING LIFE: UNITS SHALL BE CAPABLE OF 2000 HOURS MINIMUM OPERATION WITHIN THE PRESCRIBED LIMITS.

STORAGE LIFE: 1 YEAR MINIMUM AT ROOM TEMPERATURE WITHOUT ANY MECHANICAL OR ELECTRICAL DETERIORATION.

C. CONSTRUCTION: HERMETICALLY SEALED. FUSED GLASS TO METAL AND WELDED METAL TO METAL SEALS.

CAPACITANCE CHANGE VS. TEMPERATURE: CHANGE IN CAPACITANCE AT -2.0 VOLTS ± 5% FROM 0°C TO 80°C SHALL BE LESS THAN 5%.

DASH NO.,	CAPACITANCE PICOFARADS AT 4VDC ±.	
-1	47	

		•	QTY REQD	PART OR IDENTIFYING NO.	Ĺ
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	IN Dws. n	MIT ISTRUMENTATION LAB CAMBRIDGE, MASS. 0. CONTRACT	
		FRACTIONSDECIMALSANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING	DRAWN CHECK APPRO	ED Regari / Maynars VAL Ay G. MAYO 9/9/63	•
		MATERIAL SEE NOTES	APPRO	VAL Ellon CHall 9 Sept 63	
NEXT ASSY	USED ON	HEAT TREATMENT	NASA	APPROVAL Milcole 9/14/13	CODE
APPLIC	ATION		MIT A	PPROVAL UKulen 10 4963	SCALE
3			2		
		INCHES L_L_L_L_L O PHOTOGRAPHIC SCAL	LLJ 2 E ONLY		



1 MC 2% V	CAPACITAN PICOFARA AT 20VDC	NCE RANGE DS • 1MC AT 0.1VDC	DC WORKING VOLTS - MAX	QUALIT AT 4VDC MINIMUM	Y FACTOR A AT 4VDC - Typical	AT MAX WV Typical	1 AI NA
	<u>≤</u> 24	<u>></u> 120	20	7.0	15	32	

