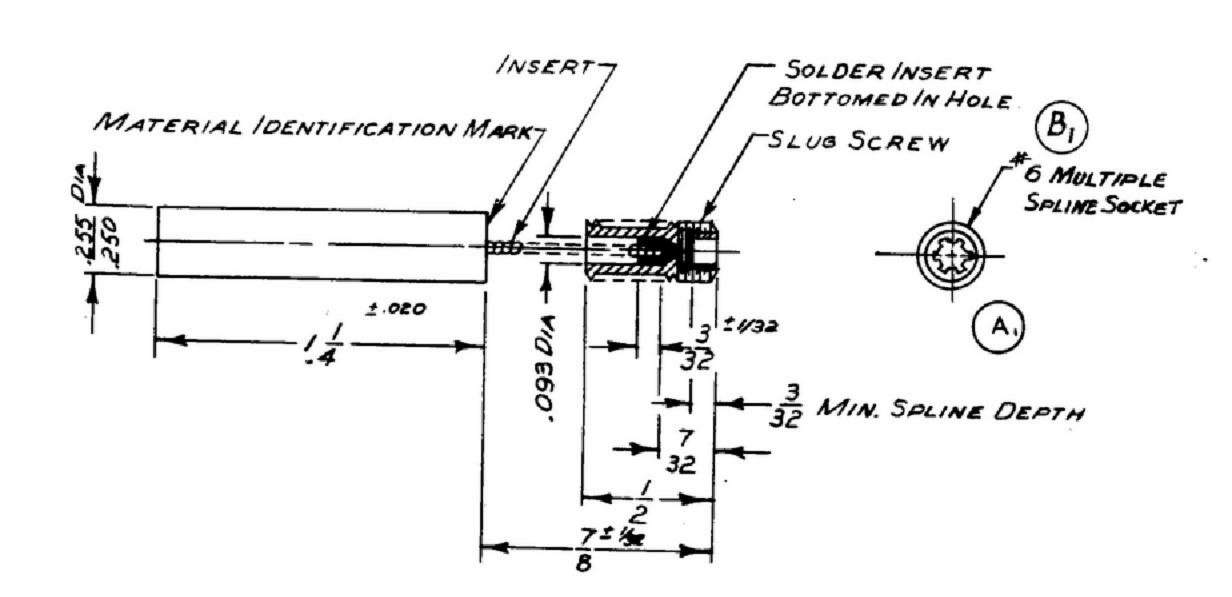
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SOTERHEEST AND MAT SE REPROSUCED AND

*FOR INFORMATION ONLY, CONTRACTOR MAY AT HIS OPTION DEVIATE FROM THESE PROCESS DETAILS.

* SHE APPROVAL REVISIONS SYM PRIDONS DESCRIPTION DATE APPROVAL AZ A, CLARIFIED VIEW OF SLUG 42428-PC SCREW DEC | 59-A1-51 ALADDED APPL SM-D-343629 59 KEN.P PME (1) NO.6 WAS NO.8 23 MAR 21582-Pc-61 1965 RETO PINE



NOTES: 1. PART MAY BE #27-634, AS SUPPLIED BY STACKPOLE CARBON CO., CHICAGO, ILL., OR EQUAL, PROVIDING IT MEETS THE FOLLOWING REQUIREMENTS AND DIMENSIONS SHOWN.

DESCRIPTION: FERRITE CORE FOR PERMEABILITY TUNING. MATERIAL: STACKPOLE CERAMAG 3387 FERRITE, AS SUPPLIED BY STACKPOLE CARBON CO., CHICAGO, ILL., OR EQUAL.

INSERT: .020 INCH DIAMETER BERYLLIUM COPPER WIRE COILED UNDER TENSION IN THE RIGHT MAND DIRECTION ON A .022 INCH DIAMETER MANDREL TO AN O.D. OF .063 ±.005 INCH.
SLUG SCREW: BRASS, COMP 22, 1/2 HARD, PER SPEC QQ-8-626; 8-32 NC-24 THREAD FULL LENGTH. MARKING: MATERIAL IDENTIFICATION SHALL BE WITH TWO DOTS, WHITE AND RED, PLACED ON THE CORE AS SHOWN IN THE BRAWING.

FREQUENCY RANGE: .5 TO 32 MC. PERMEABILITY TOLERANCE: WITHIN +1% -2% OF THE PERMEABILITY OF THE STANBARD CORE TO BE SUPPLIED BY THE CONTRACTOR, WITH SIGNAL CORPS APPROVAL.

O TOLERANCE: WITHIN 10% OF THE Q OF THE STANDARD CORE,
CONCENTRICITY: CONCENTRICITY OF CORE AND INSERT SHALL BE MEASURED BY CHUCKING THE CORE. TOTAL
INDICATOR READING SHALL BE .015 INCHES MAXIMUM AT THE JUNCTION OF THE CORE AND INSERT.
PULL TEST: THE INSERT SHALL BE CAPABLE OF WITHSTANDING AN AXIAL PULL TEST AT THE JUNCTION OF CORE AND INSERT OF 5 POUNDS FOR A TIME DURATION OF ONEMINUTE AT ROOM TEMPERATURE. UPON COMPLETION OF THE TEST THERE SHALL BE NO SIGN OF DAMAGE TO OR APPROACHING FAILURE OF THE

BOND BETWEEN THE CORE AND INSERT. ELECTRICAL TESTS: PERMEABILITY AND Q SHALL BE TESTED BY COMPARISON WITH A STANDARD CORE ON A BOONTON MODEL 160A Q-METER, AS SUPPLIED BY BOONTON RADIO CORP., BOONTON, M.J., OR WQUAL. TEMPERATURE RANGE: -55°C TO +90°C OPERATING, TO -62°C STORAGE.

*SAMPLE APPROVAL: SAMPLE APPROVAL SHALL BE OBTAINED FROM CONTRACTOR'S ENGINEERING DEPARTMENT BEFORE PROVEDING WITH PRODUCTION. A MINIMUM OF 20 UNITS SHALL BE REQUIRED FOR TESTING. ALL MECHANICAL AND ELECTRICAL REQUIREMENTS OF THIS SPECIFICATION SHALL BE TESTED BEFORE SAMPLE APPROVAL IS GRANTED. THERE SHALL BE NO CHANGE IN MATERIALS OR DESIGN WITHOUT THE SURMISSION OF NEW SAMPLES FOR CONTRACTOR'S APPROVAL.

*PRODUCTION INSPECTION TESTING: A NUMBER OF UNITS TO BE DETERMINED BY CONTRACTOR'S QUALITY CONTROL DEPARTMENT, BASED ON A STANDARD SAMPLING PLAN SUCH AS MIL-STD-105, MAY BE TESTED AS

A-PHYSICAL INSPECTION FOR CONFORMANCE TO MECHANICAL REQUIREMENTS. B-CONCENTRICITY

C-PERMEABILITY TOLERANCE.

D-Q TOLERANCE.

*PRODUCTION TEPE TESTING: IN ADDITION TO THE TESTS CONDUCTION UNDER PRODUCTION INSPECTION TESTING, A SMALL PERCENTAGE OF UNITS, TO BE DETERMINED BY PRIME CONTRACTOR, MAY BE FURTHER TESTED AS FOLLOWS TO EVALUATE THE QUALITY OF THE UNITS. A-PULL TEST.

