

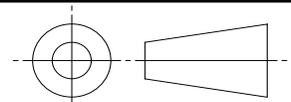
AS81714/63

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THIRD ANGLE PROJECTION



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CUSTODIAN: AE-8/AE-8C2

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

TERMINAL JUNCTION SYSTEM, TERMINAL JUNCTION
BLOCKS, SECTIONAL, GROUNDING MODULES, STUD
AND FLANGE TYPE MOUNTING, SERIES II

AS81714/63
SHEET 1 OF 7

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THE COMPLETE REQUIREMENTS FOR ACQUIRING THE MODULE DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF SPECIFICATION MIL-T-81714.

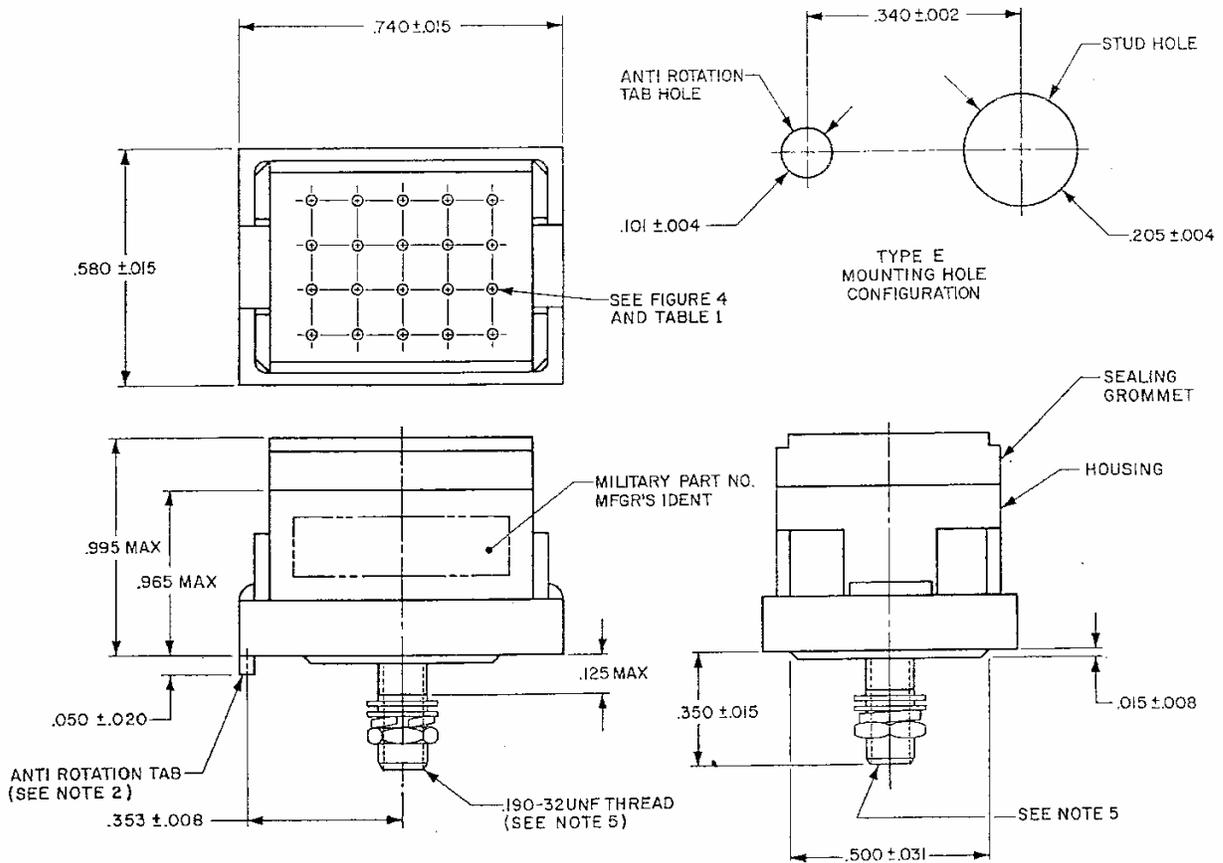


FIGURE 1. STUD MOUNTING TYPE S.

MIL-T-81714/63, DATED 2 MARCH 1988, IS INACTIVE FOR NEW DESIGN AND IS NO LONGER USED, EXCEPT FOR REPLACEMENT PURPOSES.

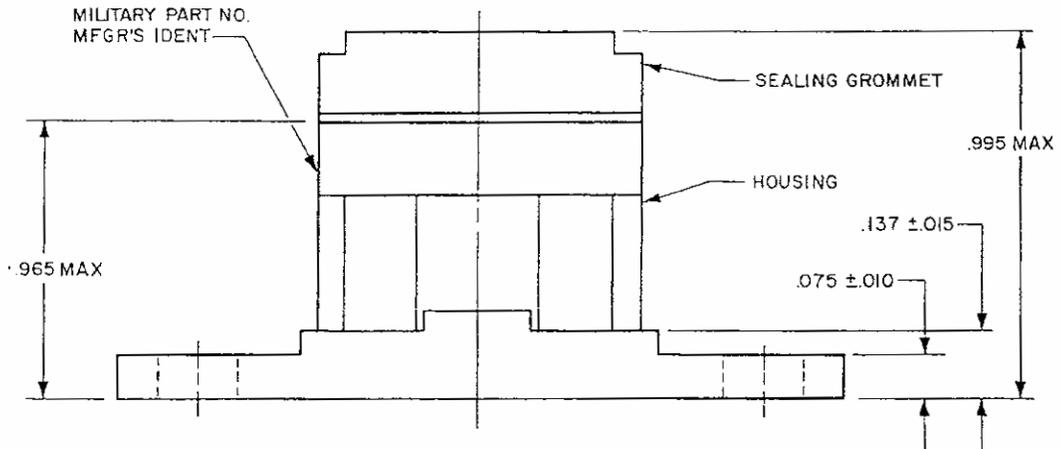
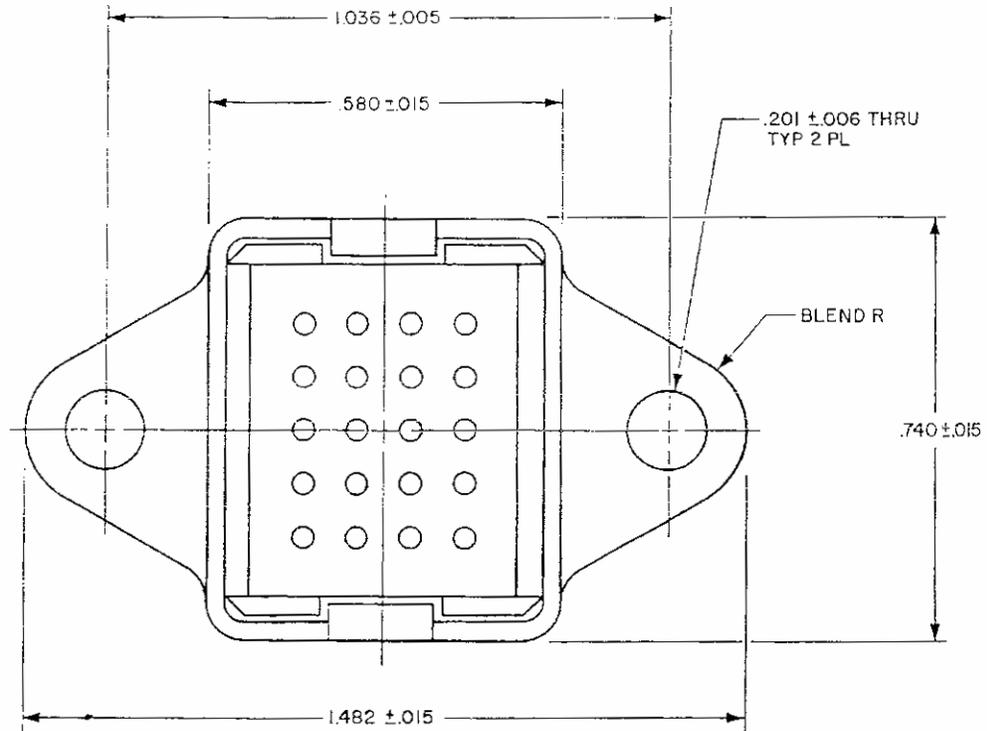


FIGURE 2. FLANGE MOUNTING TYPE F (ALL EXCEPT BLOCK SIZE 12).

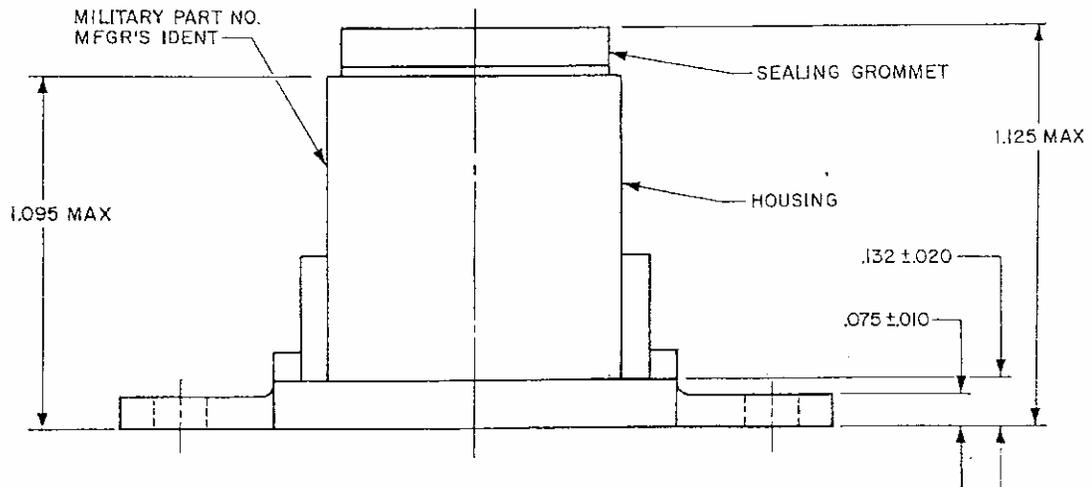
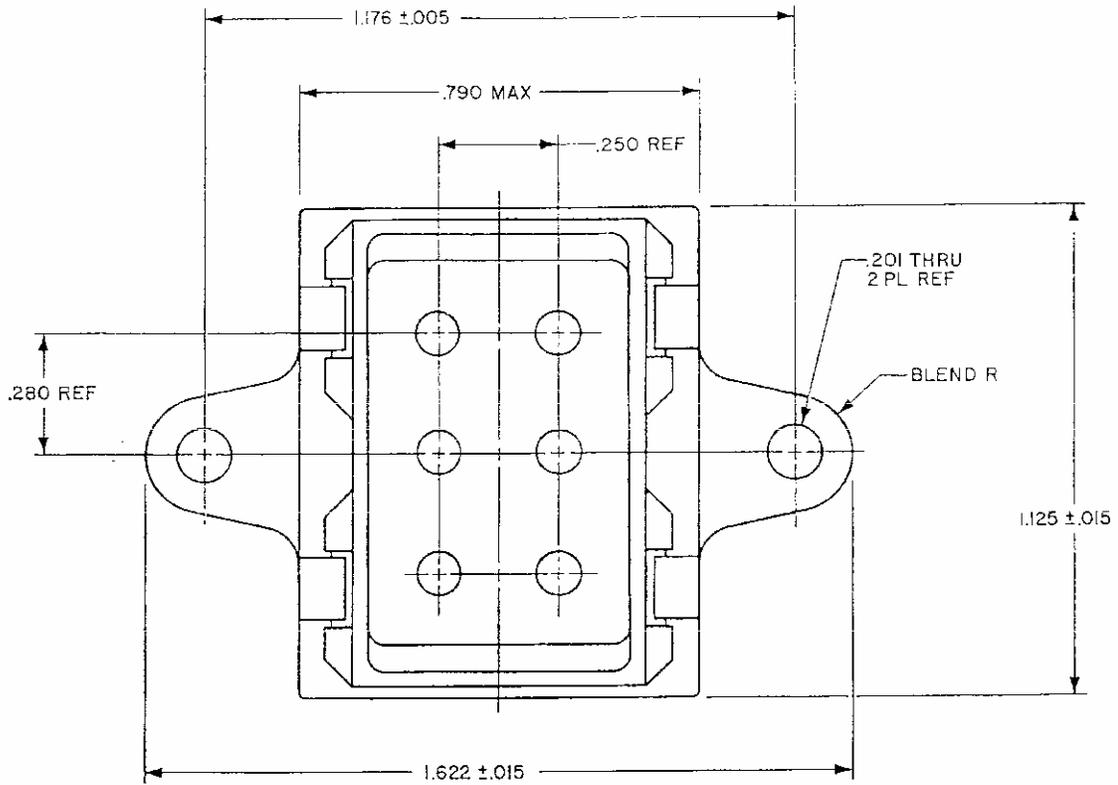
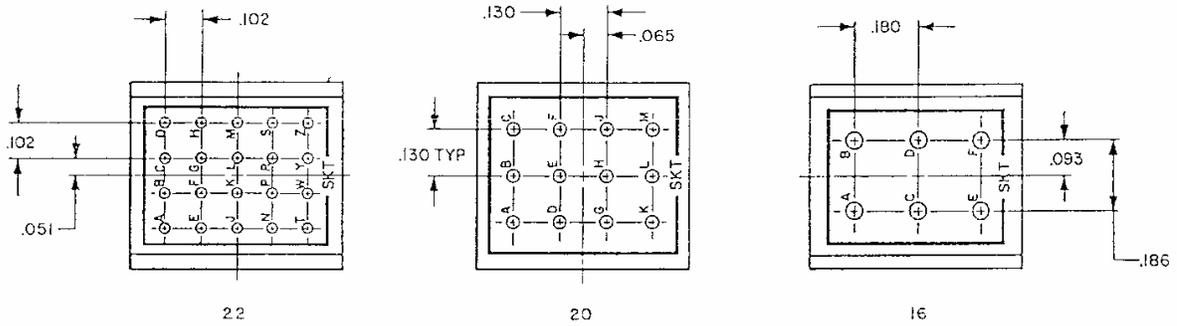


FIGURE 3. FLANGE MOUNTING TYPE F, BLOCK SIZE 12.



ALL DIMENSIONS OF THIS FIGURE ARE REFERENCE DIMENSIONS.

FIGURE 4. TYPE S AND F.

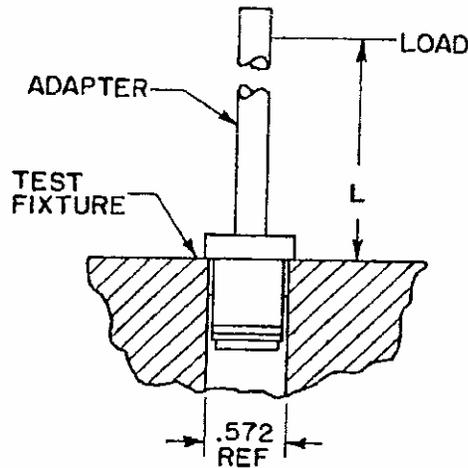
TABLE 1.

COMPONENT DESIGNATOR	BUSSING ARRANGEMENT	TYPE	CONTACT INSERTING/ REMOVAL TOOL	END SEALING PLUG	FIGURE
22	22	S & F	M81969/16-04	MS27488-22	4
20	20	S & F	M81969/14-02	MS27488-20	4
16	16	S & F	M81969/14-03	MS27488-16	4
12 (SEE PAGE 4)	12	F ONLY	M89169/16-03	MS27488-12	3

INCH	MM	INCH	MM	INCH	MM	INCH	MM
.002	0.05	.065	1.65	.186	4.72	.740	18.79
.004	1.01	.075	1.90	.201	5.10	.790	20.06
.005	0.12	.093	2.36	.205	5.20	.965	24.51
.006	0.15	.101	2.56	.250	6.35	.995	25.27
.008	0.20	.102	2.59	.280	7.11	1.036	26.31
.010	0.25	.125	3.17	.340	8.63	1.095	27.81
.015	0.38	.130	3.30	.350	8.89	1.125	28.57
.020	0.50	.132	3.35	.353	8.96	1.176	29.87
.031	0.78	.137	3.47	.500	12.7	1.482	37.64
.050	1.27	.180	4.57	.580	14.73	1.622	41.19
.051	1.29						

REQUIREMENTS:

1. FINISH:
 - a. THE SHELL SHALL BE TIN PLATED IN ACCORDANCE WITH MIL-T-10727 .00025 INCH MINIMUM OVER A SUITABLE NICKEL UNDERPLATE.
 - b. THE STUD SHALL BE GOLD PLATED IN ACCORDANCE WITH MIL-G-45204, TYPE I, GRADE C, CLASS 00 OVER A SUITABLE NICKEL UNDERPLATE.
2. THE ASSEMBLY SHALL BE MOUNTED IN A TEST FIXTURE AS SHOWN BELOW WITH AN ADAPTER ATTACHED TO THE STUD OR FLANGE AS NECESSARY. APPLY THE REQUIRED LOAD AT DISTANCE "L" FROM THE TEST FIXTURE AS SHOWN. THE LOAD SHALL CREATE A BENDING MOMENT OF 20 INCH-LBS. FOR SIZES 22, 20 AND 16, AND 30 INCH-LBS. FOR SIZE 12. APPLY THE LOAD AT A RATE OF APPROXIMATELY 1 LB. PER SECOND UNTIL THE REQUIRED FORCE IS ACHIEVED AND KEEP IT APPLIED FOR 15 SECONDS BEFORE RELEASING. THERE SHALL BE NO EVIDENCE OF SEPARATION BETWEEN THE HOUSING AND THE STUD OR SHELL BASE, OR ANY OTHER DAMAGE DETRIMENTAL TO THEIR NORMAL OPERATION.

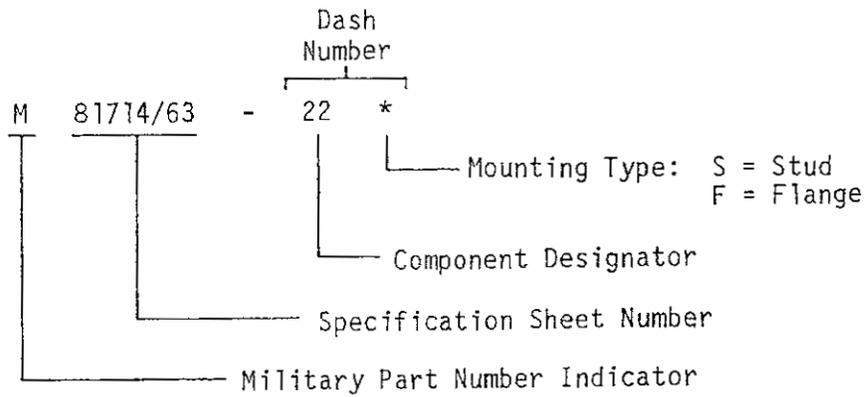


NOTES:

1. DIMENSIONS ARE IN INCHES.
2. TYPE S (ONLY) BLOCKS SHALL BE SUPPLIED WITH THE FOLLOWING MOUNTING HARDWARE:

HEX NUT	AN 315-3
FLAT WASHER	AN960-10L, (QTY 2)
LOCK WASHER	MS35333-39
3. ANTI ROTATION TAB SHALL ENTER INTO MOUNTING HOLE.
4. METRIC EQUIVALENTS (TO THE NEAREST .01 MM) ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.

5. THE PART NUMBER CONSISTS OF THE LETTER M, SPECIFICATION SHEET NUMBER, COMPONENT DESIGNATOR AND MOUNTING TYPE (S OR F).



Part Number example:

M81714/63-22S