

REV.
B

SAE AS34121

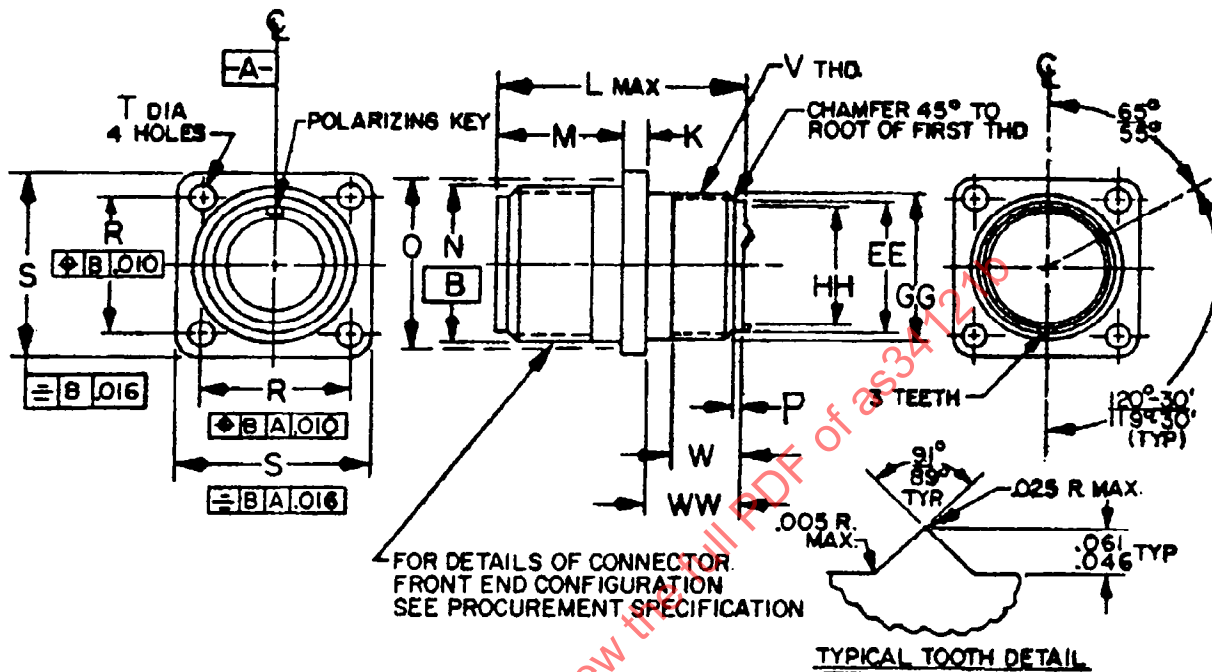
RATIONALE

LIMIT SCOPE REVISION REQUIRED TO INCORPORATE AS34121-A1

NOTICE

THE REQUIREMENTS FOR ACQUIRING THE COMPONENTS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS50151.

FEDERAL SUPPLY CLASS
5935

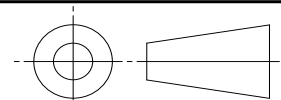


CLASSES D, L, U, W ENVIRONMENT RESISTANT INTERFACE ONLY - WITH ACCESSORY THREADS

FIGURE 1 - AS34121 CONFIGURATION

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS34121B>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS50151

SAE Aerospace
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AEROSPACE STANDARD

CONNECTORS, RECEPTACLE, ELECTRIC, WALL
MOUNTING, FRONT RELEASE, CRIMP CONTACT,
AN TYPE - WITH ACCESSORY THREADS

SAE AS34121
SHEET 1 OF 4

REV.
B

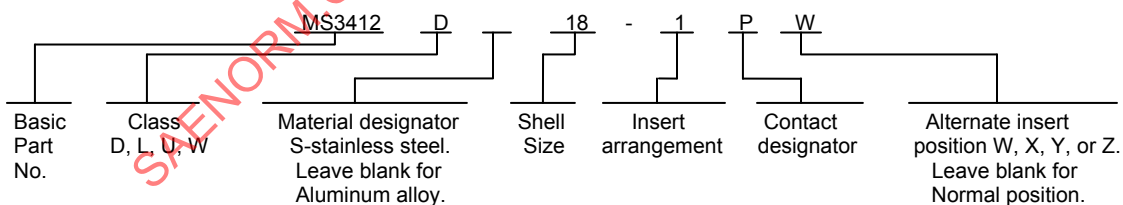
TABLE 1 – AS34121 DIMENSIONS

SIZE	K ±.015	L MAX		M +.031 -.000	N +.000 -.062	O (REF) MTG. HOLE	R T.P. C _L -C _L	S ±.031	T +.010 -.005
		SIZE 16 & 12 CONT'S	SIZE 8, 4 & 0 CONT'S						
8S	.083	1.662		.562	.532	.562	.594	.875	.120
10S	↑	↑		↑	.656	.688	.719	1.000	↑
10SL				↓	.656	.688	.719	1.000	
12S				.562	.782	.812	.812	1.094	
12				.750	.782	.812	.812	1.094	
14S				.562	.906	.938	.906	1.188	
14				.750	.906	.938	.906	1.188	
16S	↓			.562	1.032	1.062	.969	1.281	
16	.083		1.937	.750	1.032	1.062	.969	1.281	
18	.125		↑	↑	1.156	1.188	1.062	1.375	
20	↑			↓	1.282	1.312	1.156	1.500	↓
22				.750	1.406	1.438	1.250	1.625	.120
24				.812	1.532	1.562	1.375	1.750	.147
28				.812	1.782	1.812	1.562	2.000	.147
32				.875	2.032	2.062	1.750	2.250	.173
36				↑	2.282	2.312	1.938	2.500	↑
40				↓	2.532	2.562	2.188	2.750	↓
44	↓	↓	↓	↓	2.782	2.812	2.375	3.000	↓
48	.125	1.662	1.937	.875	3.032	3.062	2.625	3.250	.173

TABLE 1 (CONTINUED) – AS34121 DIMENSIONS

SIZE	V THREAD CLASS 2A	EE	GG MAX	HH +.005	P +.005	W MIN	WW MIN
8S	.500-20 UNEF	.426 .419	.499	.368	.065	.290	.310
10S	.625-24 ↑	.562 .555	.625	.502	↑	↑	↑
10SL	.625-24	.562 .555	.625	.502			
12S	.750-20	.679 .672	.750	.618			
12	.750-20	.679 .672	.750	.618			
14S	.875-20	.804 .797	.875	.743			
14	.875-20	.804 .797	.875	.743			
16S	1.000-20	.929 .922	1.000	.868			
16	1.000-20	.929 .922	1.000	.868			
18	1.062-18	.984 .977	1.062	.924			
20	1.188-18	1.109 1.102	1.187	1.049			
22	1.312-18 ↓	1.234 1.227	1.312	1.174	↓	↓	↓
24	1.438-18 UNEF	1.359 1.352	1.437	1.299	.065	.290	.310
28	1.750-18 UNS	1.613 1.603	1.750	1.520	.095	.467	.487
32	2.000-18 UNS	1.863 1.853	2.000	1.770	↑	↑	↑
36	2.250-16 UN	2.113 2.103	2.250	1.985	↑	↑	↑
40	2.500-16 UN	2.363 2.353	2.500	2.200	↑	↑	↑
44	2.750-16 UN	2.613 2.603	2.750	2.455	↓	↓	↓
48	3.000-16 UN	2.858 2.848	3.000	2.705	.095	.467	.487

Example of part no: MS3412D 18-1PW



NOTES

- DIMENSIONS ARE IN INCHES.
- UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± 0.016 .
- DIMENSIONS AND TOLERANCING IN ACCORDANCE WITH ANSI Y14.5.
- AS50151 CRIMP CONTACT, FRONT AND REAR RELEASE CONNECTORS AND SOLDER CONTACT CONNECTORS ARE INTERMATEABLE.
- UNLESS OTHERWISE SHOWN, CORRESPONDING FEATURES OF PIN AND SOCKET CONTACT CONNECTORS ARE IDENTICAL.