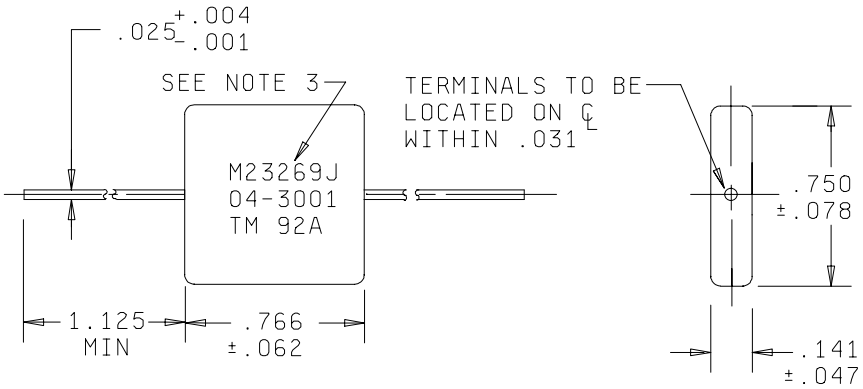
INCH-POUND
MIL-PRF-23269/4G
10 June 1999
SUPERSEDING
MIL-C-23269/4F
4 February 1993

PERFORMANCE SPECIFICATION SHEET

CAPACITORS, FIXED, GLASS DIELECTRIC, (AXIAL WIRE-LEAD TERMINALS), ESTABLISHED RELIABILITY, STYLE CYR30

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-PRF-23269.



Inches	mm	Inches	mm
.001	0.03	.078	1.98
.004	0.10	.141	3.58
.025	0.64	.750	19.05
.031	0.79	.766	19.46
.047	1.19	1.125	28.58
.062	1.57		

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. See marking requirement.

FIGURE 1. Dimensions and configurations.

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1.

Case material: Glass.

Terminals: Solderable.

Capacitance (nominal): See table I.

Capacitance tolerance: See table I.

Rated voltage: See table I.

Failure rate level: M, P, R, or S.

Rated temperature: -55°C to +125°C.

Temperature coefficient: 140 parts per million (ppm)/°C ±25 ppm/°C.

Capacitance drift: 0.1 percent or 0.1 pF, whichever is greater.

Seal: Hermetic.

Seal: Test I.

Insulation resistance: 10,000 megohms or 200-ohm-farads minimum (qualification inspection only at +125°C). 100,000 megohms minimum (at 25°C).

Dissipation factor (DF): 0.1 percent maximum.

Thermal shock and moisture resistance:

DF: 0.1 percent maximum.

Quality factor (Q): In accordance with MIL-PRF-23269.

Life:

ΔCapacitance (240 hours and 2,000 hours): 0.5 percent maximum.

DF (240 hours and 2,000 hours): 0.15 percent maximum.

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Marking:          "M" Part or Identifying Number (PIN)          "J" Brand in lieu of slash
                        M23269          J_______________________________|
                        04-3001
                        TM   92         A_____________________
                         |     |                                |
          Trademark____|    Year                    Sequential 4 week lot code
                            code
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Substitutability data: See table II.

TABLE I. Electrical and physical characteristics and dash numbers.

Capacitance (pF)	Capacitance tolerance	Dash number M23269/04- FRL in percent/1,000 hours				
		500 V dc				100 V dc
		M (1.0)	P (0.1)	R (0.01)	S (0.001)	S (0.001) 1/
3.6	±1%	3001	4001	5001	6001	7001
3.6	±2%	3002	4002	5002	6002	7002
3.6	±5%	3003	4003	5003	6003	7003
3.9	±1%	3004	4004	5004	6004	7004
3.9	±2%	3005	4005	5005	6005	7005
3.9	±5%	3006	4006	5006	6006	7006
4.3	±1%	3007	4007	5007	6007	7007
4.3	±2%	3008	4008	5008	6008	7008
4.3	±5%	3009	4009	5009	6009	7009
4.7	±1%	3010	4010	5010	6010	7010
4.7	±2%	3011	4011	5011	6011	7011
4.7	±5%	3012	4012	5012	6012	7012
5.1	±1%	3013	4013	5013	6013	7013
5.1	±2%	3014	4014	5014	6014	7014
5.1	±5%	3015	4015	5015	6015	7015
5.6	±1%	3016	4016	5016	6016	7016
5.6	±2%	3017	4017	5017	6017	7017
5.6	±5%	3018	4018	5018	6018	7018
6.2	±1%	3019	4019	5019	6019	7019
6.2	±2%	3020	4020	5020	6020	7020
6.2	±5%	3021	4021	5021	6021	7021
		300 V dc				100 V dc
6.8	±1%	3022	4022	5022	6022	7022
6.8	±2%	3023	4023	5023	6023	7023
6.8	±5%	3024	4024	5024	6024	7024
7.5	±1%	3025	4025	5025	6025	7025
7.5	±2%	3026	4026	5026	6026	7026
7.5	±5%	3027	4027	5027	6027	7027
8.2	±1%	3028	4028	5028	6028	7028
8.2	±2%	3029	4029	5029	6029	7029
8.2	±5%	3030	4030	5030	6030	7030
9.1	±1%	3031	4031	5031	6031	7031
9.1	±2%	3032	4032	5032	6032	7032
9.1	±5%	3033	4033	5033	6033	7033
10.0	±1%	3034	4034	5034	6034	7034
10.0	±2%	3035	4035	5035	6035	7035
10.0	±5%	3036	4036	5036	6036	7036

1/ Sixth power rule applies for derating at 0.5 $\frac{\text{operating}}{\text{rated}}$ voltage ratios and below.

TABLE II. Substitutability data.

Superseded type designation in MIL-C-23269/4B	Use dash number M23269/04- in M23269/4C through /4F		Superseded type designation in MIL-C-23269/4B	Use dash number M23269/04- in M23269/4C through /4F	
	FRL in percent/1,000 hours			FRL in percent/1,000 hours	
	L (2.0)	M (1.0)		L (2.0)	M (1.0)
CYR30C362F	2001	3001	CYR30C622F	2019	3019
CYR30C362G	2002	3002	CYR30C622G	2020	3020
CYR30C362J	2003	3003	CYR30C622J	2021	3021
CYR30C392F	2004	3004	CYR30C682F	2022	3022
CYR30C392G	2005	3005	CYR30C682G	2023	3023
CYR30C392J	2006	3006	CYR30C682J	2024	3024
CYR30C432F	2007	3007	CYR30C752F	2025	3025
CYR30C432G	2008	3008	CYR30C752G	2026	3026
CYR30C432J	2009	3009	CYR30C752J	2027	3027
CYR30C472F	2010	3010	CYR30C822F	2028	3028
CYR30C472G	2011	3011	CYR30C822G	2029	3029
CYR30C472J	2012	3012	CYR30C822J	2030	3030
CYR30C512F	2013	3013	CYR30C912F	2031	3031
CYR30C512G	2014	3014	CYR30C912G	2032	3032
CYR30C512J	2015	3015	CYR30C912J	2033	3033
CYR30C562F	2016	3016	CYR30C103F	2034	3034
CYR30C562G	2017	3017	CYR30C103G	2035	3035
CYR30C562J	2018	3018	CYR30C103J	2036	3036

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:
Army - CR
Navy - EC
Air Force - 11
DLA - CC

Review activities:
Navy - AS, CG, MC, OS, SH
Air Force - 17, 19

Preparing activity:
DLA - CC

(Project 5910-2024-04)