DEFENSE LOGISTICS AGENCY
LAND AND MARITIME
P.O. BOX 3990
COLUMBUS, OHIO 43218-3990

October 3, 2016

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial Drafts of MIL-PRF-23269H, MIL-PRF-23269/1J, MIL-PRF-23269/2J and MIL-PRF-23269/10E
Project numbers 5910-2016-035, 036, 037 and 038.

The drafts of the above subject documents are being sent to you for review and comments. These drafts consist of the following changes:
Update to the following
1. Add inactive for new design on all four documents.
2.Remove Establish Reliability, failure rate levels and part per million quality system.
3.Remove Qualification requirement and add First Article inspection.
4.Remove all the Failure rate levels (M, P, R or S) part numbers and add new part number options to the three slash sheets.
5. Update with MIL-STD-961.
Due to the extent of the changes made to the specification and the slash sheets, the drafts are marked with yellow highlights and with vertical lines to indicate where the changes have been made.

If these documents are of interest to you, please provide your comments electronically. This can be in the form of a return e-mail, with or without an attached text file. A 30 day coordination cycle from the date of this letter has been allotted. Please provide your comments within that time period. If no comments are received in the allotted 30 day coordination cycle, concurrence is assumed and all comments received after will be held to the first amendment. If an electronic response is not possible we will still accept comments via letter, facsimile or phone call but only after you have contacted the project officer listed below. The draft document can be found at the following DLA Land and Maritime web page:

https://landandmaritimeapps.dla.mil/programs/milspec/default.aspx

This process still requires military departments to identify their comments as “Essential” or “Suggested”. Essential comments must be justified with supporting data. Military review activities should forward comments to their custodians or this office, as applicable, in sufficient time to allow for consolidating the department reply.

If there are any questions, please contact Yeasvina Afroz by the preferred method of E-Mail at Yeasvina.Afroz@dla.mil or by telephone at commercial 614-692-0551, DSN 850-0551; or by facsimile at 614-693-1644. Our mailing address as a last resort is DLA Land and Maritime, VAT, P.O. Box 3990, Columbus, OH 43218-3990. If you have further questions or concerns you may contact me at Michael.Radecki@dla.mil by telephone at 614-692-0561 or by facsimile at 614-692-6939.

/Signed/
MICHAEL A. RADECKI
Chief
Electronic Components Branch

NOTE: This initial draft, dated October 03, 2016 prepared by DLA-CC, has not been approved and is subject to modification. DO NOT USE PRIOR TO APPROVAL. (Project 5910-2016-037)

INCH-POUND
MIL-PRF-23269/2J
DRAFT
SUPERSEDING
MIL-PRF-23269/2H
31 July 2009

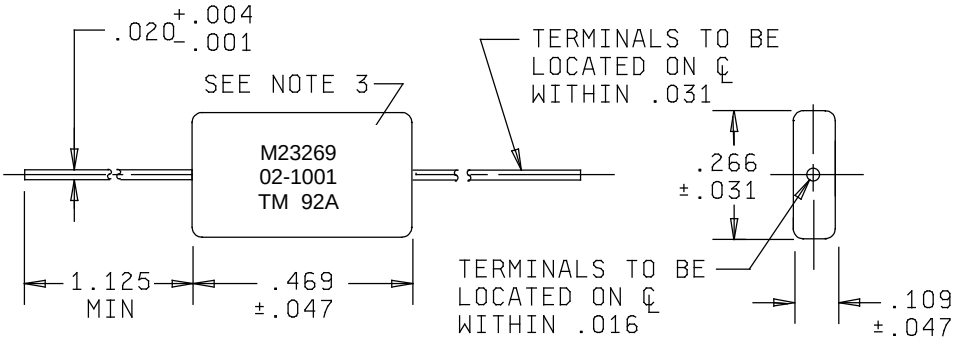
PERFORMANCE SPECIFICATION SHEET

CAPACITORS, FIXED, GLASS DIELECTRIC,
(AXIAL WIRE-LEAD TERMINALS), ~~ESTABLISHED RELIABILITY~~,
STYLE CYR15

Inactive for new design after
October 03, 2016

This specification sheet 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 sheet and MIL-PRF-23269.



Inches	mm	Inches	mm
.001	0.03	.047	1.19
.004	0.10	.109	2.77
.016	0.41	.266	6.76
.020	0.51	.469	11.91
.031	0.79	1.125	28.58

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

FIGURE 1. Dimensions and configurations.

AMSC N/A

FSC 5910

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 of MIL-PRF-23269.

Insulation resistance: 10,000 megohms or 200-ohm-farads minimum (~~qualification~~ first article 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.

Marking: "M" Part or Identifying Number (PIN)

M23269
02-~~3001~~ 1001
TM 09A

Trademark — Year code — Sequential 4 week lot code

Substitutability data: See table II.

TABLE I. Electrical and physical characteristics and PIN numbers. 1/

Capacitance (pF)	Capacitance tolerance	Dash number M23269/02-	Capacitance (pF)	Capacitance tolerance	Dash number M23269/02-
220	±1%	1001	510	±5%	1030
220	±2%	1002	560	±1%	1031
220	±5%	1003	560	±2%	1032
240	±1%	1004	560	±5%	1033
240	±2%	1005	620	±1%	1034
240	±5%	1006	620	±2%	1035
270	±1%	1007	620	±5%	1036
270	±2%	1008	680	±1%	1037
270	±5%	1009	680	±2%	1038
300	±1%	1010	680	±5%	1039
300	±2%	1011	750	±1%	1040
300	±5%	1012	750	±2%	1041
330	±1%	1013	750	±5%	1042
330	±2%	1014	820	±1%	1043
330	±5%	1015	820	±2%	1044
360	±1%	1016	820	±5%	1045
360	±2%	1017	910	±1%	1046
360	±5%	1018	910	±2%	1047
390	±1%	1019	910	±5%	1048
390	±2%	1020	1,000	±1%	1049
390	±5%	1021	1,000	±2%	1050
430	±1%	1022	1,000	±5%	1051
430	±2%	1023	1,100	±1%	1052
430	±5%	1024	1,100	±2%	1053
470	±1%	1025	1,100	±5%	1054
470	±2%	1026	1,200	±1%	1055
470	±5%	1027	1,200	±2%	1056
510	±1%	1028	1,200	±5%	1057
510	±2%	1029			

1/ Dash numbers are non-established reliability.

TABLE II. Substitutability data. 1/

Superseding Dash number M23269/02-	Superseded type designation in MIL-C-23269/2B	Dash number M23269/02- FRL in percent/1,000 hours					
		Use dash number M23269/02- in M23269/2C through /2H					
		L (2.0)	M (1.0)	P (0.1)	R (0.01)	S (0.001)	S (0.001) 2/
1001	CYR15C221F	2001	3001	4001	5001	6001	7001
1002	CYR15C221G	2002	3002	4002	5002	6002	7002
1003	CYR15C221J	2003	3003	4003	5003	6003	7003
1004	CYR15C241F	2004	3004	4004	5004	6004	7004
1005	CYR15C241G	2005	3005	4005	5005	6005	7005
1006	CYR15C241J	2006	3006	4006	5006	6006	7006
1007	CYR15C271F	2007	3007	4007	5007	6007	7007
1008	CYR15C271G	2008	3008	4008	5008	6008	7008
1009	CYR15C271J	2009	3009	4009	5009	6009	7009
1010	CYR15C301F	2010	3010	4010	5010	6010	7010
1011	CYR15C301G	2011	3011	4011	5011	6011	7011
1012	CYR15C301J	2012	3012	4012	5012	6012	7012
1013	CYR15C331F	2013	3013	4013	5013	6013	7013
1014	CYR15C331G	2014	3014	4014	5014	6014	7014
1015	CYR15C331J	2015	3015	4015	5015	6015	7015
1016	CYR15C361F	2016	3016	4016	5016	6016	7016
1017	CYR15C361G	2017	3017	4017	5017	6017	7017
1018	CYR15C361J	2018	3018	4018	5018	6018	7018
1019	CYR15C391F	2019	3019	4019	5019	6019	7019
1020	CYR15C391G	2020	3020	4020	5020	6020	7020
1021	CYR15C391J	2021	3021	4021	5021	6021	7021
1022	CYR15C431F	2022	3022	4022	5022	6022	7022
1023	CYR15C431G	2023	3023	4023	5023	6023	7023
1024	CYR15C431J	2024	3024	4024	5024	6024	7024
1025	CYR15C471F	2025	3025	4025	5025	6025	7025
1026	CYR15C471G	2026	3026	4026	5026	6026	7026
1027	CYR15C471J	2027	3027	4027	5027	6027	7027
1028	CYR15C511F	2028	3028	4028	5028	6028	7028
1029	CYR15C511G	2029	3029	4029	5029	6029	7029
1030	CYR15C511J	2030	3030	4030	5030	6030	7030

See footnote at end of table II.

TABLE II. Substitutability data. - Continued. 1/

Superseding Dash number M23269/02-	Superseded type designation in MIL-C-23269/2B	Dash number M23269/02- FRL in percent/1,000 hours					
		Use dash number M23269/02- in M23269/2C through /2H					
		L(2.0)	M (1.0)	P (0.1)	R (0.01)	S (0.001)	S (0.001) 2/
1031	CYR15C561F	2031	3031	4031	5031	6031	7031
1032	CYR15C561G	2032	3032	4032	5032	6032	7032
1033	CYR15C561J	2033	3033	4033	5033	6033	7033
1034	CYR15C621F	2034	3034	4034	5034	6034	7034
1035	CYR15C621G	2035	3035	4035	5035	6035	7035
1036	CYR15C621J	2036	3036	4036	5036	6036	7036
1037	CYR15C681F	2037	3037	4037	5037	6037	7037
1038	CYR15C681G	2038	3038	4038	5038	6038	7038
1039	CYR15C681J	2039	3039	4039	5039	6039	7039
1040	CYR15C751F	2040	3040	4040	5040	6040	7040
1041	CYR15C751G	2041	3041	4041	5041	6041	7041
1042	CYR15C751J	2042	3042	4042	5042	6042	7042
1043	CYR15C821F	2043	3043	4043	5043	6043	7043
1044	CYR15C821G	2044	3044	4044	5044	6044	7044
1045	CYR15C821J	2045	3045	4045	5045	6045	7045
1046	CYR15C911F	2046	3046	4046	5046	6046	7046
1047	CYR15C911G	2047	3047	4047	5047	6047	7047
1048	CYR15C911J	2048	3048	4048	5048	6048	7048
1049	CYR15C102F	2049	3049	4049	5049	6049	7049
1050	CYR15C102G	2050	3050	4050	5050	6050	7050
1051	CYR15C102J	2051	3051	4051	5051	6051	7051
1052	CYR15C112F	2052	3052	4052	5052	6052	7052
1053	CYR15C112G	2053	3053	4053	5053	6053	7053
1054	CYR15C112J	2054	3054	4054	5054	6054	7054
1055	CYR15C122F	2055	3055	4055	5055	6055	7055
1056	CYR15C122G	2056	3056	4056	5056	6056	7056
1057	CYR15C122J	2057	3057	4057	5057	6057	7057

1/ Users are cautioned to evaluate this document for their particular application before citing the superseding dash numbers since the L, M, P, R, S failure rate levels (FRL) established in accordance with MIL-STD-690 are no longer available.

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

~~TABLE III. Substitutability data. 1/~~

~~Superseded type designation in MIL-C-23269/2B~~	~~Use dash number M23269/02- in M23269/2C through /2H~~		~~Superseded type designation in MIL-C-23269/2B~~	~~Use dash number M23269/02- in M23269/2C through /2H~~	
	~~FRL in percent/1,000 hours~~			~~FRL in percent/1,000 hours~~	
	~~L (2.0)~~	~~M (1.0)~~		~~L (2.0)~~	~~M (1.0)~~
~~CYR15C221F~~	~~2001~~	~~3001~~	~~CYR15C511J~~	~~2030~~	~~3030~~
~~CYR15C221G~~	~~2002~~	~~3002~~	~~CYR15C561F~~	~~2031~~	~~3031~~
~~CYR15C221J~~	~~2003~~	~~3003~~	~~CYR15C561G~~	~~2032~~	~~3032~~
~~CYR15C241F~~	~~2004~~	~~3004~~	~~CYR15C561J~~	~~2033~~	~~3033~~
~~CYR15C241G~~	~~2005~~	~~3005~~	~~CYR15C621F~~	~~2034~~	~~3034~~
~~CYR15C241J~~	~~2006~~	~~3006~~	~~CYR15C621G~~	~~2035~~	~~3035~~
~~CYR15C271F~~	~~2007~~	~~3007~~	~~CYR15C621J~~	~~2036~~	~~3036~~
~~CYR15C271G~~	~~2008~~	~~3008~~	~~CYR15C681F~~	~~2037~~	~~3037~~
~~CYR15C271J~~	~~2009~~	~~3009~~	~~CYR15C681G~~	~~2038~~	~~3038~~
~~CYR15C301F~~	~~2010~~	~~3010~~	~~CYR15C681J~~	~~2039~~	~~3039~~
~~CYR15C301G~~	~~2011~~	~~3011~~	~~CYR15C751F~~	~~2040~~	~~3040~~
~~CYR15C301J~~	~~2012~~	~~3012~~	~~CYR15C751G~~	~~2041~~	~~3041~~
~~CYR15C331F~~	~~2013~~	~~3013~~	~~CYR15C751J~~	~~2042~~	~~3042~~
~~CYR15C331G~~	~~2014~~	~~3014~~	~~CYR15C821F~~	~~2043~~	~~3043~~
~~CYR15C331J~~	~~2015~~	~~3015~~	~~CYR15C821G~~	~~2044~~	~~3044~~
~~CYR15C361F~~	~~2016~~	~~3016~~	~~CYR15C821J~~	~~2045~~	~~3045~~
~~CYR15C361G~~	~~2017~~	~~3017~~	~~CYR15C911F~~	~~2046~~	~~3046~~
~~CYR15C361J~~	~~2018~~	~~3018~~	~~CYR15C911G~~	~~2047~~	~~3047~~
~~CYR15C391F~~	~~2019~~	~~3019~~	~~CYR15C911J~~	~~2048~~	~~3048~~
~~CYR15C391G~~	~~2020~~	~~3020~~	~~CYR15C102F~~	~~2049~~	~~3049~~
~~CYR15C391J~~	~~2021~~	~~3021~~	~~CYR15C102G~~	~~2050~~	~~3050~~
~~CYR15C431F~~	~~2022~~	~~3022~~	~~CYR15C102J~~	~~2051~~	~~3051~~
~~CYR15C431G~~	~~2023~~	~~3023~~	~~CYR15C112F~~	~~2052~~	~~3052~~
~~CYR15C431J~~	~~2024~~	~~3024~~	~~CYR15C112G~~	~~2053~~	~~3053~~
~~CYR15C471F~~	~~2025~~	~~3025~~	~~CYR15C112J~~	~~2054~~	~~3054~~
~~CYR15C471G~~	~~2026~~	~~3026~~	~~CYR15C122F~~	~~2055~~	~~3055~~
~~CYR15C471J~~	~~2027~~	~~3027~~	~~CYR15C122G~~	~~2056~~	~~3056~~
~~CYR15C511F~~	~~2028~~	~~3028~~	~~CYR15C122J~~	~~2057~~	~~3057~~
~~CYR15C511G~~	~~2029~~	~~3029~~			

Referenced documents: This specification sheet only references MIL-PRF-23269.

The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodians:
Army - CR
Navy - EC
Air Force - 85
DLA - CC

Review activities:
Navy - AS, MC, OS, SH
Air Force -19, 99
Other DoD - MDA

Preparing activity:
DLA - CC

(Project 5910-2016-037)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at https://assist.dla.mil/.