

MIL-PRF-39006/22K

Case size	Dimensions in inches (mm)			
	Basic case		Insulated case	E ±.250 (6.35)
	L ^{1/} +.031 (0.79) -.016 (0.41)	D ±.016 (0.41)	D max	
T1	.453 (11.51)	.188 (4.78)	.219 (5.56)	1.500 (38.10)
T2	.641 (16.28)	.281 (7.14)	.312 (7.92)	2.250 (57.15)
T3	.766 (19.46)	.375 (9.52)	.406 (10.31)	2.250 (57.15)
T4	1.062 (26.97)	.375 (9.52)	.406 (10.31)	2.250 (57.15)

^{1/} Length of basic case sleeving shall be as specified in [MIL-PRF-39006](#).

FIGURE 1. Style CLR79 capacitors - Continued.

REQUIREMENTS:

Dimensions and configuration: See [figure 1](#).

Case type: Tantalum, tubular, insulated.

Seal type: Hermetic (glass-to-tantalum anode).

Terminals: Axial-wire lead: Cathode and anode (N32, N51, or N52 of [MIL-STD-1276](#)).

Rated temperature: -55°C to +85°C, voltage derated to +125°C (see [figure 2](#)).

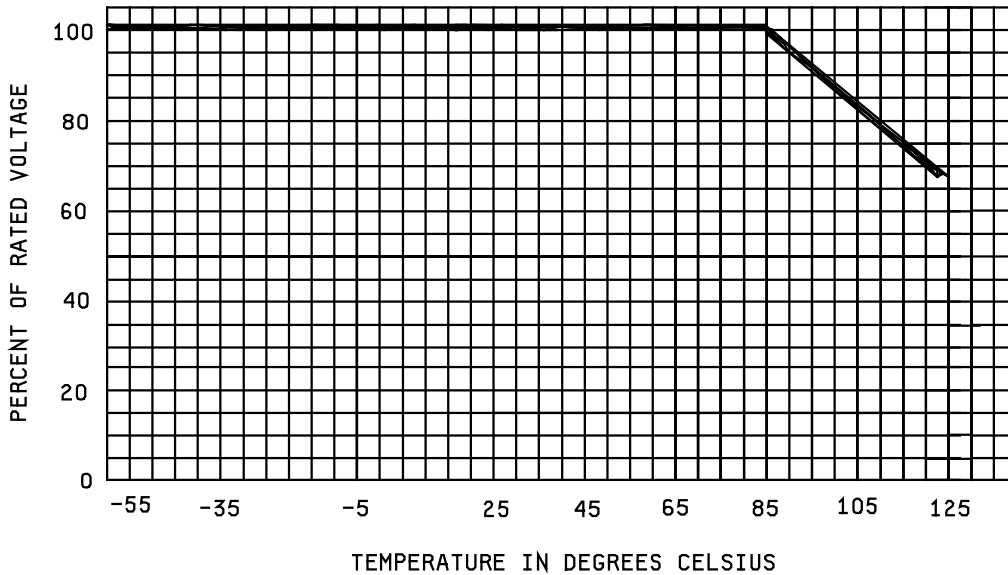


FIGURE 2. Voltage derating with temperature.

Rated voltage: See [table I](#).

Capacitance (Cap.) nominal (nom): See [table I](#).

Cap. tolerance: See [table I](#).

Failure rate level: M, P, R, and S (see [table I](#)).

DC leakage (DCL) (maximum) (at +25°C): See [table I](#).

Cap. (nom): [MIL-STD-202-305](#) (see [table I](#)).

Dissipation factor (DF) (maximum): See [table I](#).

Seal: [MIL-STD-202-112](#), conditions A or D, and C.

Shock (specified pulse): [MIL-STD-202-213](#), condition I (100 g's) or condition D (500 g's), as applicable.

Vibration, high frequency: [MIL-STD-202-204](#), condition D (20 g's) or condition H (80 g's), as applicable.

Random vibration (when applicable): [MIL-STD-202-214](#), test condition II-K (53.79 g's).

Thermal shock: [MIL-STD-202-107](#), condition A (with step 3 at +125°C). The following shall apply:

Number of cycles: In accordance with [MIL-PRF-39006](#).

DCL: 200 percent (maximum) of +25°C value of [table I](#) for qualification and group C.

DCL: 125 percent (maximum) of +25°C value of [table I](#) for group B.

Δ Cap: Within ± 5 percent of initial measurement.

DF: 115 percent (maximum) of initial requirement.

Salt atmosphere (corrosion): [MIL-STD-202-101](#), condition B (48 hours).

Solderability: [MIL-STD-202-208](#).

Terminal strength:

Pull: [MIL-STD-202-211](#), condition A.

Wire-lead bend: In accordance with [MIL-PRF-39006](#).

Surge voltage: See [table I](#).

Moisture resistance: [MIL-STD-202-106](#).

DCL: 125 percent (maximum) of +25°C value of [table I](#).

Δ Cap: Within ± 8 percent of initial measurement.

DF: 115 percent (maximum) of initial requirement.

Dielectric withstanding voltage (DWV): [MIL-STD-202-301](#): 2,000 V dc, minimum.

Insulation resistance (IR): [MIL-STD-202-302](#), condition B 100 megohms, minimum.

Low temperature (storage): Method 502 of [MIL-STD-810](#).

DCL: See [table I](#).

Δ Cap: Within ± 5 percent of initial measurement.

DF: See [table I](#).

Stability at low and high temperatures:

Step 1 (+25°C):

DCL: See [table I](#).

Δ Cap: Within tolerance of [table I](#) value.

DF: See [table I](#).

Step 2 (-55°C):

Impedance. See [table I](#).

Δ Cap: See [table I](#).

Step 3 (+25°C):

DCL: See [table I](#).

Δ Cap: Within ± 5 percent of step 1 value.

DF: See [table I](#).

Step 4 (+85°C):

DCL: See [table I](#).

Δ Cap: See [table I](#).

DF: See [table I](#).

Step 5 (+125°C):

DCL: See [table I](#).

Δ Cap: See [table I](#).

DF: See [table I](#).

Step 6 (+25°C):

DCL: See [table I](#).

Δ Cap: Within ± 5 percent of step 1 value.

DF: See [table I](#).

Reverse voltage: As specified in [MIL-PRF-39006](#).

DCL: See [table I](#).

Δ Cap: Within tolerance of [table I](#) value.

DF: See [table I](#).

Life at +85°C: [MIL-STD-202-108](#).

2,000 hours (qualification):

DCL: See [table I](#).

Δ Cap: Within ± 10 percent of initial measurement.

DF: See [table I](#).

10,000 hours (group B) and extended life:

DCL (+85°C): 125 percent (maximum) of [table I](#) value.

DCL (+25°C): See [table I](#).

Δ Cap: Within +10 percent, -20 percent of initial measurement.

DF: 200 percent (maximum) of [table I](#) value.

DWV: 2,000 V dc, minimum.

IR.: 100 megohms, minimum.

AC ripple life at +85°C (qualification and group C):

Test ripple current: See [table I](#).

Test voltage: 66.67 percent of rated voltage (see [table I](#)).

DCL: See [table I](#).

Δ Cap: Within ± 10 percent of initial measurement.

DF: See [table I](#).

Life at +125°C: [MIL-STD-202-108](#).

DCL: See [table I](#).

Δ Cap: Within ± 10 percent of initial measurement.

DF: See [table I](#).

DWV: 2,000 V dc, minimum.

IR.: 100 megohms, minimum.

2,000 hours (group C):

DCL (+125°C): 125 percent (maximum) of [table I](#) value.

DCL (+25°C): See [table I](#).

Δ Cap: Within +10 percent, -20 percent of initial measurement.

DF: 200 percent (maximum) of [table I](#) value.

DWV: 2,000 V dc, minimum.

IR.: 100 megohms, minimum.

Barometric pressure: [MIL-STD-202-105](#), condition E (150,000 feet) (45,720.1 m).

Test voltage: Rated voltage.

Resistance to soldering heat: [MIL-STD-202-210](#), condition C.

DCL: See [table I](#).

Δ Cap: Within ± 5 percent of initial measurement.

DF: See [table I](#).

Marking: In accordance with [MIL-PRF-39006](#).

Polarity: Series of plus (+) symbols encircling positive end (see [figure 1](#)).

Voltage groups (+85°C rated voltage):

I ----- 6 V through 15 V.

II ----- 25 V through 75 V.

III ----- 100 V and 125 V.

Substitutability data: See [table III](#).

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TABLE I. Capacitor characteristics.

Cap. μF	Cap. tolerance $\pm\%$	DC leakage (max)		Dissipation factor (max) %	ESR at +25°C (max) Ω	Impedance (max) Ohms	Capacitance change at			Max +85°C 40 kHz ripple current $\frac{3}{\text{mA rms}}$	Case size	PIN M39006/22- 4/ non-compression seal			
		+25°C μA	+85°C +125°C μA				-55°C %	+85°C %	+125°C %			Failure rate level (%/1,000 hrs)			
							M(1.0)	P(0.1)	R(0.01)			S(0.001)			
		6 V _{dc} at +85°C $\frac{1}{\text{}}$			4 V _{dc} at +125°C $\frac{1}{\text{}}$			Surge (+85°C) 6.9 V _{dc}							
30	20	1	2	9	3.98	100	-40	+10.5	+12	820	T1	0001-	0221-	0441-	0661-
30	10	1	2	9	3.98	100	-40	+10.5	+12	820	T1	0002-	0222-	0442-	0662-
30	5	1	2	9	3.98	100	-40	+10.5	+12	820	T1	0003-	0223-	0443-	0663-
68	20	1	2	15	3.16	60	-40	+14	+16	960	T1	0004-	0224-	0444-	0664-
68	10	1	2	15	3.16	60	-40	+14	+16	960	T1	0005-	0225-	0445-	0665-
68	5	1	2	15	3.16	60	-40	+14	+16	960	T1	0006-	0226-	0446-	0666-
140	20	1	3	21	1.99	40	-40	+14	+16	1,200	T2	0007-	0227-	0447-	0667-
140	10	1	3	21	1.99	40	-40	+14	+16	1,200	T2	0008-	0228-	0448-	0668-
140	5	1	3	21	1.99	40	-40	+14	+16	1,200	T2	0009-	0229-	0449-	0669-
270	20	1	6.5	45	2.21	25	-44	+17.5	+20	1,375	T2	0010-	0230-	0450-	0670-
270	10	1	6.5	45	2.21	25	-44	+17.5	+20	1,375	T2	0011-	0231-	0451-	0671-
270	5	1	6.5	45	2.21	25	-44	+17.5	+20	1,375	T2	0012-	0232-	0452-	0672-
330	20	2	7.9	36	1.45	20	-44	+14	+16	1,800	T3	0013-	0233-	0453-	0673-
330	10	2	7.9	36	1.45	20	-44	+14	+16	1,800	T3	0014-	0234-	0454-	0674-
330	5	2	7.9	36	1.45	20	-44	+14	+16	1,800	T3	0015-	0235-	0455-	0675-
560	20	2	13	55	1.30	25	-64	+17.5	+20	1,900	T3	0016-	0236-	0456-	0676-
560	10	2	13	55	1.30	25	-64	+17.5	+20	1,900	T3	0017-	0237-	0457-	0677-
560	5	2	13	55	1.30	25	-64	+17.5	+20	1,900	T3	0018-	0238-	0458-	0678-
1,200	20	3	14	90	1.00	20	-80	+25	+25	2,265	T4	0019-	0239-	0459-	0679-
1,200	10	3	14	90	1.00	20	-80	+25	+25	2,265	T4	0020-	0240-	0460-	0680-
		8 V _{dc} at +85°C $\frac{1}{\text{}}$			5 V _{dc} at +125°C $\frac{1}{\text{}}$			Surge (+85°C) 9.2 V _{dc}							
25	20	1	2	7.5	3.98	100	-40	+10.5	+12	820	T1	0021-	0241-	0461-	0681-
25	10	1	2	7.5	3.98	100	-40	+10.5	+12	820	T1	0022-	0242-	0462-	0682-
25	5	1	2	7.5	3.98	100	-40	+10.5	+12	820	T1	0023-	0243-	0463-	0683-
56	20	1	2	14	3.32	59	-40	+14	+16	900	T1	0024-	0244-	0464-	0684-
56	10	1	2	14	3.32	59	-40	+14	+16	900	T1	0025-	0245-	0465-	0685-
56	5	1	2	14	3.32	59	-40	+14	+16	900	T1	0026-	0246-	0466-	0686-
120	20	1	2	20	2.21	50	-44	+17.5	+20	1,220	T2	0027-	0247-	0467-	0687-
120	10	1	2	20	2.21	50	-44	+17.5	+20	1,220	T2	0028-	0248-	0468-	0688-
120	5	1	2	20	2.21	50	-44	+17.5	+20	1,220	T2	0029-	0249-	0469-	0689-
220	20	1	7	37	2.23	30	-44	+17.5	+20	1,370	T2	0030-	0250-	0470-	0690-
220	10	1	7	37	2.23	30	-44	+17.5	+20	1,370	T2	0031-	0251-	0471-	0691-
220	5	1	7	37	2.23	30	-44	+17.5	+20	1,370	T2	0032-	0252-	0472-	0692-
290	20	2	6	34	1.56	25	-64	+17.5	+20	1,770	T3	0033-	0253-	0473-	0693-
290	10	2	6	34	1.56	25	-64	+17.5	+20	1,770	T3	0034-	0254-	0474-	0694-
290	5	2	6	34	1.56	25	-64	+17.5	+20	1,770	T3	0035-	0255-	0475-	0695-
430	20	2	14	46	1.42	25	-64	+17.5	+20	1,825	T3	0036-	0256-	0476-	0696-
430	10	2	14	46	1.42	25	-64	+17.5	+20	1,825	T3	0037-	0257-	0477-	0697-
430	5	2	14	46	1.42	25	-64	+17.5	+20	1,825	T3	0038-	0258-	0478-	0698-
850	20	4	16	60	0.94	22	-80	+25	+25	2,330	T4	0039-	0259-	0479-	0699-
850	10	4	16	60	0.94	22	-80	+25	+25	2,330	T4	0040-	0260-	0480-	0700-
		10 V _{dc} at +85°C $\frac{1}{\text{}}$			7 V _{dc} at +125°C $\frac{1}{\text{}}$			Surge (+85°C) 11.5 V _{dc}							
20	20	1	2	6	3.98	175	-32	+10.5	+12	820	T1	0041-	0261-	0481-	0701-
20	10	1	2	6	3.98	175	-32	+10.5	+12	820	T1	0042-	0262-	0482-	0702-
20	5	1	2	6	3.98	175	-32	+10.5	+12	820	T1	0043-	0263-	0483-	0703-
47	20	1	2	13	3.67	100	-36	+14	+16	855	T1	0044-	0264-	0484-	0704-
47	10	1	2	13	3.67	100	-36	+14	+16	855	T1	0045-	0265-	0485-	0705-
47	5	1	2	13	3.67	100	-36	+14	+16	855	T1	0046-	0266-	0486-	0706-
100	20	1	4	15	1.99	60	-36	+14	+16	1,200	T2	0047-	0267-	0487-	0707-
100	10	1	4	15	1.99	60	-36	+14	+16	1,200	T2	0048-	0268-	0488-	0708-
100	5	1	4	15	1.99	60	-36	+14	+16	1,200	T2	0049-	0269-	0489-	0709-

See footnotes at end of table.

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TABLE I. Capacitor characteristics - Continued.

Cap. μF	Cap. tolerance $\pm\%$	DC leakage (max)		Dissipation factor (max) %	ESR at +25°C (max) Ω	Impedance (max) Ohms	Capacitance change at			Max +85°C 40 kHz ripple current $\frac{3}{}$ mA rms	Case size	PIN M39006/22- $\frac{4}{}$ non-compression seal			
		+25°C μA	+85°C +125°C μA				-55°C %	+85°C %	+125°C %			Failure rate level (%/1,000 hrs)			
							M(1.0)	P(0.1)	R(0.01)			S(0.001)			
		10 V _{dc} at +85°C $\frac{1}{}$			7 V _{dc} at +125°C $\frac{1}{}$			Surge (+85°C) 11.5 V _{dc} -Continued.							
180	20	1	7	30	2.21	40	-36	+14	+16	1,365	T2	0050-	0270-	0490-	0710-
180	10	1	7	30	2.21	40	-36	+14	+16	1,365	T2	0051-	0271-	0491-	0711-
180	5	1	7	30	2.21	40	-36	+14	+16	1,365	T2	0052-	0272-	0492-	0712-
250	20	2	10	30	1.59	30	-40	+14	+16	1,720	T3	0053-	0273-	0493-	0713-
250	10	2	10	30	1.59	30	-40	+14	+16	1,720	T3	0054-	0274-	0494-	0714-
250	5	2	10	30	1.59	30	-40	+14	+16	1,720	T3	0055-	0275-	0495-	0715-
390	20	2	16	44	1.50	25	-64	+17.5	+20	1,800	T3	0056-	0276-	0496-	0716-
390	10	2	16	44	1.50	25	-64	+17.5	+20	1,800	T3	0057-	0277-	0497-	0717-
390	5	2	16	44	1.50	25	-64	+17.5	+20	1,800	T3	0058-	0278-	0498-	0718-
750	20	4	16	50	0.88	23	-80	+25	+25	2,360	T4	0059-	0279-	0499-	0719-
750	10	4	16	50	0.88	23	-80	+25	+25	2,360	T4	0060-	0280-	0500-	0720-
		15 V _{dc} at +85°C $\frac{1}{}$			10 V _{dc} at +125°C $\frac{1}{}$			Surge (+85°C) 17.2 V _{dc}							
15	20	1	2	5	4.42	155	-24	+10.5	+12	780	T1	0061-	0281-	0501-	0721-
15	10	1	2	5	4.42	155	-24	+10.5	+12	780	T1	0062-	0282-	0502-	0722-
15	5	1	2	5	4.42	155	-24	+10.5	+12	780	T1	0063-	0283-	0503-	0723-
33	20	1	2	10	4.02	90	-28	+14	+16	820	T1	0064-	0284-	0504-	0724-
33	10	1	2	10	4.02	90	-28	+14	+16	820	T1	0065-	0285-	0505-	0725-
33	5	1	2	10	4.02	90	-28	+14	+16	820	T1	0066-	0286-	0506-	0726-
70	20	1	4	13	2.46	75	-28	+14	+16	1,150	T2	0067-	0287-	0507-	0727-
70	10	1	4	13	2.46	75	-28	+14	+16	1,150	T2	0068-	0288-	0508-	0728-
70	5	1	4	13	2.46	75	-28	+14	+16	1,150	T2	0069-	0289-	0509-	0729-
120	20	1	7	18	1.99	50	-28	+17.5	+20	1,450	T2	0070-	0290-	0510-	0730-
120	10	1	7	18	1.99	50	-28	+17.5	+20	1,450	T2	0071-	0291-	0511-	0731-
120	5	1	7	18	1.99	50	-28	+17.5	+20	1,450	T2	0072-	0292-	0512-	0732-
170	20	2	10	25	1.95	35	-32	+14	+16	1,480	T3	0073-	0293-	0513-	0733-
170	10	2	10	25	1.95	35	-32	+14	+16	1,480	T3	0074-	0294-	0514-	0734-
170	5	2	10	25	1.95	35	-32	+14	+16	1,480	T3	0075-	0295-	0515-	0735-
270	20	2	16	32	1.57	30	-56	+17.5	+20	1,740	T3	0076-	0296-	0516-	0736-
270	10	2	16	32	1.57	30	-56	+17.5	+20	1,740	T3	0077-	0297-	0517-	0737-
270	5	2	16	32	1.57	30	-56	+17.5	+20	1,740	T3	0078-	0298-	0518-	0738-
540	20	6	24	40	0.98	23	-80	+25	+25	2,330	T4	0079-	0299-	0519-	0739-
540	10	6	24	40	0.98	23	-80	+25	+25	2,330	T4	0080-	0300-	0520-	0740-
		25 V _{dc} at +85°C $\frac{1}{}$			15 V _{dc} at +125°C $\frac{1}{}$			Surge (+85°C) 28.8 V _{dc}							
10	20	1	2	4	5.31	220	-16	+8	+9	715	T1	0081-	0301-	0521-	0741-
10	10	1	2	4	5.31	220	-16	+8	+9	715	T1	0082-	0302-	0522-	0742-
10	5	1	2	4	5.31	220	-16	+8	+9	715	T1	0083-	0303-	0523-	0743-
22	20	1	2	6.6	3.98	140	-20	+10.5	+12	825	T1	0084-	0304-	0524-	0744-
22	10	1	2	6.6	3.98	140	-20	+10.5	+12	825	T1	0085-	0305-	0525-	0745-
22	5	1	2	6.6	3.98	140	-20	+10.5	+12	825	T1	0086-	0306-	0526-	0746-
50	20	1	2	11.0	2.92	70	-28	+13	+15	1,130	T2	0087-	0307-	0527-	0747-
50	10	1	2	11.0	2.92	70	-28	+13	+15	1,130	T2	0088-	0308-	0528-	0748-
50	5	1	2	11.0	2.92	70	-28	+13	+15	1,130	T2	0089-	0309-	0529-	0749-
100	20	1	10	15	1.99	50	-28	+13	+15	1,435	T2	0090-	0310-	0530-	0750-
100	10	1	10	15	1.99	50	-28	+13	+15	1,435	T2	0091-	0311-	0531-	0751-
100	5	1	10	15	1.99	50	-28	+13	+15	1,435	T2	0092-	0312-	0532-	0752-
120	20	2	6	21	2.32	38	-32	+13	+15	1,450	T3	0093-	0313-	0533-	0753-
120	10	2	6	21	2.32	38	-32	+13	+15	1,450	T3	0094-	0314-	0534-	0754-
120	5	2	6	21	2.32	38	-32	+13	+15	1,450	T3	0095-	0315-	0535-	0755-
180	20	2	18	26	1.92	32	-48	+13	+15	1,525	T3	0096-	0316-	0536-	0756-
180	10	2	18	26	1.92	32	-48	+13	+15	1,525	T3	0097-	0317-	0537-	0757-
180	5	2	18	26	1.92	32	-48	+13	+15	1,525	T3	0098-	0318-	0538-	0758-

See footnotes at end of table.

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TABLE I. Capacitor characteristics - Continued.

Cap. μF	Cap. tolerance ±%	DC leakage (max)		Dissipation factor (max) %	ESR at +25°C (max) 2/ Ohms	Impedance (max) Ohms	Capacitance change at			Max +85°C 40 kHz ripple current 3/ mA rms	Case size	PIN M39006/22- 4/ non-compression seal			
		+25°C μA	+85°C +125°C μA				-55°C %	+85°C %	+125°C %			Failure rate level (%/1,000 hrs)			
							M(1.0)	P(0.1)	R(0.01)			S(0.001)			
		25 V _{dc} at +85°C 1/			15 V _{dc} at +125°C 1/			Surge (+85°C) 28.8 V _{dc}				-Continued.			
350	20	7	28	35	1.33	24	-70	+25	+25	1,970	T4	0099-	0319-	0539-	0759-
350	10	7	28	35	1.33	24	-70	+25	+25	1,970	T4	0100-	0320-	0540-	0760-
		30 V _{dc} at +85°C 1/			20 V _{dc} at +125°C 1/			Surge (+85°C) 34.5 V _{dc}							
8	20	1	2	4	6.64	275	-16	+8	+12	640	T1	0101-	0321-	0541-	0761-
8	10	1	2	4	6.64	275	-16	+8	+12	640	T1	0102-	0322-	0542-	0762-
8	5	1	2	4	6.64	275	-16	+8	+12	640	T1	0103-	0323-	0543-	0763-
15	20	1	2	5	4.42	175	-20	+10.5	+12	780	T1	0104-	0324-	0544-	0764-
15	10	1	2	5	4.42	175	-20	+10.5	+12	780	T1	0105-	0325-	0545-	0765-
15	5	1	2	5	4.42	175	-20	+10.5	+12	780	T1	0106-	0326-	0546-	0766-
40	20	1	5	10	3.32	65	-24	+10.5	+12	1,120	T2	0107-	0327-	0547-	0767-
40	10	1	5	10	3.32	65	-24	+10.5	+12	1,120	T2	0108-	0328-	0548-	0768-
40	5	1	5	10	3.32	65	-24	+10.5	+12	1,120	T2	0109-	0329-	0549-	0769-
68	20	1	8	13	2.54	60	-24	+13	+15	1,285	T2	0110-	0330-	0550-	0770-
68	10	1	8	13	2.54	60	-24	+13	+15	1,285	T2	0111-	0331-	0551-	0771-
68	5	1	8	13	2.54	60	-24	+13	+15	1,285	T2	0112-	0332-	0552-	0772-
100	20	2	12	17	2.26	40	-28	+10.5	+12	1,450	T3	0113-	0333-	0553-	0773-
100	10	2	12	17	2.26	40	-28	+10.5	+12	1,450	T3	0114-	0334-	0554-	0774-
100	5	2	12	17	2.26	40	-28	+10.5	+12	1,450	T3	0115-	0335-	0555-	0775-
150	20	2	18	23	2.03	35	-48	+13	+15	1,525	T3	0116-	0336-	0556-	0776-
150	10	2	18	23	2.03	35	-48	+13	+15	1,525	T3	0117-	0337-	0557-	0777-
150	5	2	18	23	2.03	35	-48	+13	+15	1,525	T3	0118-	0338-	0558-	0778-
300	20	8	32	31	1.37	25	-60	+25	+25	1,950	T4	0119-	0339-	0559-	0779-
300	10	8	32	31	1.37	25	-60	+25	+25	1,950	T4	0120-	0340-	0560-	0780-
		50 V _{dc} at +85°C 1/			30 V _{dc} at +125°C 1/			Surge (+85°C) 57.5 V _{dc}							
5	20	1	2	3	7.96	400	-16	+5	+6	580	T1	0121-	0341-	0561-	0781-
5	10	1	2	3	7.96	400	-16	+5	+6	580	T1	0122-	0342-	0562-	0782-
5	5	1	2	3	7.96	400	-16	+5	+6	580	T1	0123-	0343-	0563-	0783-
10	20	1	2	4	5.31	250	-24	+8	+9	715	T1	0124-	0344-	0564-	0784-
10	10	1	2	4	5.31	250	-24	+8	+9	715	T1	0125-	0345-	0565-	0785-
10	5	1	2	4	5.31	250	-24	+8	+9	715	T1	0126-	0346-	0566-	0786-
25	20	1	5	8	4.25	95	-20	+10.5	+12	1,005	T2	0127-	0347-	0567-	0787-
25	10	1	5	8	4.25	95	-20	+10.5	+12	1,005	T2	0128-	0348-	0568-	0788-
25	5	1	5	8	4.25	95	-20	+10.5	+12	1,005	T2	0129-	0349-	0569-	0789-
47	20	1	9	11	3.11	70	-28	+13	+15	1,155	T2	0130-	0350-	0570-	0790-
47	10	1	9	11	3.11	70	-28	+13	+15	1,155	T2	0131-	0351-	0571-	0791-
47	5	1	9	11	3.11	70	-28	+13	+15	1,155	T2	0132-	0352-	0572-	0792-
60	20	2	12	12	2.65	45	-16	+10.5	+12	1,335	T3	0133-	0353-	0573-	0793-
60	10	2	12	12	2.65	45	-16	+10.5	+12	1,335	T3	0134-	0354-	0574-	0794-
60	5	2	12	12	2.65	45	-16	+10.5	+12	1,335	T3	0135-	0355-	0575-	0795-
82	20	2	16	15	2.43	45	-32	+13	+15	1,400	T3	0136-	0356-	0576-	0796-
82	10	2	16	15	2.43	45	-32	+13	+15	1,400	T3	0137-	0357-	0577-	0797-
82	5	2	16	15	2.43	45	-32	+13	+15	1,400	T3	0138-	0358-	0578-	0798-
160	20	8	32	17	1.41	27	-50	+25	+25	1,900	T4	0139-	0359-	0579-	0799-
160	10	8	32	17	1.41	27	-50	+25	+25	1,900	T4	0140-	0360-	0580-	0800-
		60 V _{dc} at +85°C 1/			40 V _{dc} at +125°C 1/			Surge (+85°C) 69.0 V _{dc}							
4	20	1	2	2.8	9.29	550	-16	+5	+6	525	T1	0141-	0361-	0581-	0801-
4	10	1	2	2.8	9.29	550	-16	+5	+6	525	T1	0142-	0362-	0582-	0802-
4	5	1	2	2.8	9.29	550	-16	+5	+6	525	T1	0143-	0363-	0583-	0803-
8.2	20	1	2	4	6.47	275	-24	+8	+9	625	T1	0144-	0364-	0584-	0804-
8.2	10	1	2	4	6.47	275	-24	+8	+9	625	T1	0145-	0365-	0585-	0805-
8.2	5	1	2	4	6.47	275	-24	+8	+9	625	T1	0146-	0366-	0586-	0806-

See footnotes at end of table.

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TABLE I. Capacitor characteristics - Continued.

Cap. μF	Cap. tolerance $\pm\%$	DC leakage (max)		Dissipation factor (max) %	ESR at +25°C (max) Ω	Impedance (max) Ohms	Capacitance change at			Max +85°C 40 kHz ripple current $\frac{3}{}$ mA rms	Case size	PIN M39006/22- $\frac{4}{}$ non-compression seal			
		+25°C μA	+85°C +125°C μA				-55°C %	+85°C %	+125°C %			Failure rate level (%/1,000 hrs)			
							M(1.0)	P(0.1)	R(0.01)			S(0.001)			
		60 V _{dc} at +85°C $\frac{1}{}$				40 V _{dc} at +125°C $\frac{1}{}$				Surge (+85°C) 69.0 V _{dc} -Continued.					
20	20	1	5	7	4.64	105	-16	+10.5	+12	930	T2	0147-	0367-	0587-	0807-
20	10	1	5	7	4.64	105	-16	+10.5	+12	930	T2	0148-	0368-	0588-	0808-
20	5	1	5	7	4.64	105	-16	+10.5	+12	930	T2	0149-	0369-	0589-	0809-
39	20	1	9	10	3.40	90	-28	+10.5	+12	1,110	T2	0150-	0370-	0590-	0810-
39	10	1	9	10	3.40	90	-28	+10.5	+12	1,110	T2	0151-	0371-	0591-	0811-
39	5	1	9	10	3.40	90	-28	+10.5	+12	1,110	T2	0152-	0372-	0592-	0812-
50	20	2	12	10	2.65	50	-16	+10.5	+12	1,330	T3	0153-	0373-	0593-	0813-
50	10	2	12	10	2.65	50	-16	+10.5	+12	1,330	T3	0154-	0374-	0594-	0814-
50	5	2	12	10	2.65	50	-16	+10.5	+12	1,330	T3	0155	0375-	0595-	0815-
68	20	2	16	13	2.54	50	-32	+10.5	+12	1,365	T3	0156-	0376-	0596-	0816-
68	10	2	16	13	2.54	50	-32	+10.5	+12	1,365	T3	0157-	0377-	0597-	0817-
68	5	2	16	13	2.54	50	-32	+10.5	+12	1,365	T3	0158-	0378-	0598-	0818-
140	20	8	32	16	1.52	28	-40	+20	+20	1,850	T4	0159-	0379-	0599-	0819-
140	10	8	32	16	1.52	28	-40	+20	+20	1,850	T4	0160-	0380-	0600-	0820-
		75 V _{dc} at +85°C $\frac{1}{}$				50 V _{dc} at +125°C $\frac{1}{}$				Surge (+85°C) 86.2 V _{dc}					
3.5	20	1	2	2.5	9.48	650	-16	+5	+6	525	T1	0161-	0381-	0601-	0821-
3.5	10	1	2	2.5	9.48	650	-16	+5	+6	525	T1	0162-	0382-	0602-	0822-
3.5	5	1	2	2.5	9.48	650	-16	+5	+6	525	T1	0163-	0383-	0603-	0823-
6.8	20	1	2	3.5	6.83	300	-20	+8	+9	610	T1	0164-	0384-	0604-	0824-
6.8	10	1	2	3.5	6.83	300	-20	+8	+9	610	T1	0165-	0385-	0605-	0825-
6.8	5	1	2	3.5	6.83	300	-20	+8	+9	610	T1	0166-	0386-	0606-	0826-
15	20	1	5	6	5.31	150	-16	+8	+9	890	T2	0167-	0387-	0607-	0827-
15	10	1	5	6	5.31	150	-16	+8	+9	890	T2	0168-	0388-	0608-	0828-
15	5	1	5	6	5.31	150	-16	+8	+9	890	T2	0169-	0389-	0609-	0829-
33	20	1	10	10	4.02	90	-24	+10.5	+15	1,000	T2	0170-	0390-	0610-	0830-
33	10	1	10	10	4.02	90	-24	+10.5	+15	1,000	T2	0171-	0391-	0611-	0831-
33	5	1	10	10	4.02	90	-24	+10.5	+15	1,000	T2	0172-	0392-	0612-	0832-
40	20	2	12	9	2.99	60	-16	+10.5	+12	1,250	T3	0173-	0393-	0613-	0833-
40	10	2	12	9	2.99	60	-16	+10.5	+12	1,250	T3	0174-	0394-	0614-	0834-
40	5	2	12	9	2.99	60	-16	+10.5	+12	1,250	T3	0175-	0395-	0615-	0835-
56	20	2	17	11	2.61	60	-28	+10.5	+15	1,335	T3	0176-	0396-	0616-	0836-
56	10	2	17	11	2.61	60	-28	+10.5	+15	1,335	T3	0177-	0397-	0617-	0837-
56	5	2	17	11	2.61	60	-28	+10.5	+15	1,335	T3	0178-	0398-	0618-	0838-
110	20	9	36	12	1.45	29	-35	+20	+20	1,850	T4	0179-	0399-	0619-	0839-
110	10	9	36	12	1.45	29	-35	+20	+20	1,850	T4	0180-	0400-	0620-	0840-
		100 V _{dc} at +85°C $\frac{1}{}$				65 V _{dc} at +125°C $\frac{1}{}$				Surge (+85°C) 115 V _{dc}					
2.5	20	1	2	2	10.62	950	-16	+7	+8	505	T1	0181-	0401-	0621-	0841-
2.5	10	1	2	2	10.62	950	-16	+7	+8	505	T1	0182-	0402-	0622-	0842-
2.5	5	1	2	2	10.62	950	-16	+7	+8	505	T1	0183-	0403-	0623-	0843-
4.7	20	1	2	3	8.47	500	-16	+7	+8	565	T1	0184-	0404-	0624-	0844-
4.7	10	1	2	3	8.47	500	-16	+7	+8	565	T1	0185-	0405-	0625-	0845-
4.7	5	1	2	3	8.47	500	-16	+7	+8	565	T1	0186-	0406-	0626-	0846-
11	20	1	4	5	6.03	200	-16	+8	+8	835	T2	0187-	0407-	0627-	0847-
11	10	1	4	5	6.03	200	-16	+8	+8	835	T2	0188-	0408-	0628-	0848-
11	5	1	4	5	6.03	200	-16	+8	+8	835	T2	0189-	0409-	0629-	0849-
22	20	1	9	7.5	4.52	100	-16	+8	+8	965	T2	0190-	0410-	0630-	0850-
22	10	1	9	7.5	4.52	100	-16	+8	+8	965	T2	0191-	0411-	0631-	0851-
22	5	1	9	7.5	4.52	100	-16	+8	+8	965	T2	0192-	0412-	0632-	0852-
30	20	2	12	7	3.10	80	-16	+8	+8	1,240	T3	0193-	0413-	0633-	0853-
30	10	2	12	7	3.10	80	-16	+8	+8	1,240	T3	0194-	0414-	0634-	0854-
30	5	2	12	7	3.10	80	-16	+8	+8	1,240	T3	0195-	0415-	0635-	0855-

See footnotes at end of table.

TABLE I. Capacitor characteristics - Continued.

Cap. μF	Cap. tolerance ±%	DC leakage (max)		Dissipation factor (max) %	ESR at +25°C (max) <u>2/</u> Ohms	Impedance (max) Ohms	Capacitance change at			Max +85°C 40 kHz ripple current <u>3/</u> mA rms	Case size	PIN M39006/22- <u>4/</u> non-compression seal			
		+25°C μA	+85°C +125°C μA				-55°C %	+85°C %	+125°C %			Failure rate level (%/1,000 hrs)			
							M(1.0)	P(0.1)	R(0.01)			S(0.001)			
		100 V _{dc} at +85°C <u>1/</u>			65 V _{dc} at +125°C <u>1/</u>			Surge (+85°C) 115 V _{dc}				-Continued.			
43	20	2	17	8.5	2.62	70	-20	+8	+8	1,335	T3	0196-	0416-	0636-	0856-
43	10	2	17	8.5	2.62	70	-20	+8	+8	1,335	T3	0197-	0417-	0637-	0857-
43	5	2	17	8.5	2.62	70	-20	+8	+8	1,335	T3	0198-	0418-	0638-	0858-
86	20	9	36	10	1.54	30	-25	+15	+15	1,800	T4	0199-	0419-	0639-	0859-
86	10	9	36	10	1.54	30	-25	+15	+15	1,800	T4	0200-	0420-	0640-	0860-
		125 V _{dc} at +85°C <u>1/</u>			85 V _{dc} at +125°C <u>1/</u>			Surge (+85°C) 144 V _{dc}							
1.7	20	1	2	2	15.61	1,250	-16	+7	+8	415	T1	0201-	0421-	0641-	0861-
1.7	10	1	2	2	15.61	1,250	-16	+7	+8	415	T1	0202-	0422-	0642-	0862-
1.7	5	1	2	2	15.61	1,250	-16	+7	+8	415	T1	0203-	0423-	0643-	0863-
3.6	20	1	2	2.7	9.95	600	-16	+7	+8	520	T1	0204-	0424-	0644-	0864-
3.6	10	1	2	2.7	9.95	600	-16	+7	+8	520	T1	0205-	0425-	0645-	0865-
3.6	5	1	2	2.7	9.95	600	-16	+7	+8	520	T1	0206-	0426-	0646-	0866-
9	20	1	5	5	7.37	240	-16	+7	+8	755	T2	0207-	0427-	0647-	0867-
9	10	1	5	5	7.37	240	-16	+7	+8	755	T2	0208-	0428-	0648-	0868-
9	5	1	5	5	7.37	240	-16	+7	+8	755	T2	0209-	0429-	0649-	0869-
14	20	1	7	6	5.69	167	-16	+7	+8	860	T2	0210-	0430-	0650-	0870-
14	10	1	7	6	5.69	167	-16	+7	+8	860	T2	0211-	0431-	0651-	0871-
14	5	1	7	6	5.69	167	-16	+7	+8	860	T2	0212-	0432-	0652-	0872-
18	20	2	9	5	3.69	129	-16	+7	+8	1,130	T3	0213-	0433-	0653-	0873-
18	10	2	9	5	3.69	129	-16	+7	+8	1,130	T3	0214-	0434-	0654-	0874-
18	5	2	9	5	3.69	129	-16	+7	+8	1,130	T3	0215-	0435-	0655-	0875-
25	20	2	13	6	3.18	93	-16	+7	+8	1,200	T3	0216-	0436-	0656-	0876-
25	10	2	13	6	3.18	93	-16	+7	+8	1,200	T3	0217-	0437-	0657-	0877-
25	5	2	13	6	3.18	93	-16	+7	+8	1,200	T3	0218-	0438-	0658-	0878-
56	20	10	40	6.5	1.54	32	-25	+15	+15	1,800	T4	0219-	0439-	0659-	0879-
56	10	10	40	6.5	1.54	32	-25	+15	+15	1,800	T4	0220-	0440-	0660-	0880-

1/ Reverse voltage rating at +85°C is 3 V dc, and at +125°C is 2 V dc.

2/ Maximum ESR is calculated by the following equation:

$$ESR (max) = \frac{DF}{2\pi f C}, \text{ where:}$$

DF = Maximum dissipation factor from table I;

f = 120 Hz;

C = Nominal capacitance.

3/ For ripple current limits at various temperatures, voltages, and frequencies, see table II.

4/ Dash number shall include the letter "H" to indicate the optional vibration and shock requirements (i.e., 53.79 g's random vibration, 80 g's sinusoidal vibration, and 500 g's shock) or the "-" will be deleted. The acquiring activity may substitute an "H" designated part in place of a non "H" designated part at their option.

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TABLE II. Ripple current multipliers versus frequency, temperature, and applied peak voltage. 1/ 2/ 3/ 4/ 5/

Frequency of applied ripple current		120 Hz				800 Hz				1 kHz			
Ambient still air temperature in °C		≤+55	+85	+105	+125	≤+55	+85	+105	+125	≤+55	+85	+105	+125
% of	100%	.60	.39	-	-	.71	.43	-	-	.72	.45	-	-
+85°C	90%	.60	.46	-	-	.71	.55	-	-	.72	.55	-	-
rated	80%	.60	.52	.35	-	.71	.62	.42	-	.72	.62	.42	-
peak	70%	.60	.58	.44	-	.71	.69	.52	-	.72	.70	.52	-
voltage	66-2/3%	.60	.60	.46	.27	.71	.71	.55	.32	.72	.72	.55	.32
Frequency of applied ripple current		10 kHz				40 kHz				100 kHz			
Ambient still air temperature in °C		≤+55	+85	+105	+125	≤+55	+85	+105	+125	≤+55	+85	+105	+125
% of	100%	.88	.55	-	-	1.0	.63	-	-	1.1	.69	-	-
+85°C	90%	.88	.67	-	-	1.0	.77	-	-	1.1	.85	-	-
rated	80%	.88	.76	.52	-	1.0	.87	.59	-	1.1	.96	.65	-
peak	70%	.88	.85	.64	-	1.0	.97	.73	-	1.1	1.07	.80	-
voltage	66-2/3%	.88	.88	.68	.40	1.0	1.0	.77	.45	1.1	1.1	.85	.50

- 1/ At +125°C, the rated voltage of the capacitors decreases to 66.67 percent of the +85°C rated voltage.
- 2/ The peak of the applied ac ripple voltage plus the applied dc voltage must not exceed the dc voltage rating of the capacitor either forward or reverse.
- 3/ The ripple current listed in table I represents a rating calculated by using a maximum internal temperature rise (ΔT) at +50°C at 40 kHz at +85°C ambient temperature, with a maximum peak rated voltage of 66.67 percent of the +85°C peak voltage rating.
- 4/ The maximum allowable internal temperature rise (ΔT) decreases linearly to a calculated 10°C rise at +125°C ambient.
- 5/ The internal temperature rise is directly proportional to the ESR of the capacitor, and ESR increases with decreasing frequency.

TABLE III. Substitutability data. 1/

Dash number in MIL-C-39006/22B through MIL-PRF-39006/22K non-compression				PIN M39006/22-compression seal				Substitutable for dash number in MIL-C-39006/22A and /22				
				Failure rate level (%/1,000 hr)								
M	P	R	S	M (1.0)	P (0.1)	R (0.01)	S (0.001)	2/ L	M	P	R	S
0001-	0221-	0441-	0661-	1001-	2011-	3041-	4061-	6001	6206	6411	6616	6821
0002-	0222-	0442-	0662-	1002-	2012-	3042-	4062-	6002	6207	6412	6617	6822
0003-	0223-	0443-	0663-	1003-	2013-	3043-	4063-	6003	6208	6413	6618	6823
0004-	0224-	0444-	0664-	1004-	2014-	3044-	4064-	6004	6209	6414	6619	6824
0005-	0225-	0445-	0665-	1005-	2015-	3045-	4065-	6005	6210	6415	6620	6825
0006-	0226-	0446-	0666-	1006-	2016-	3046-	4066-	6006	6211	6416	6621	6826
0007-	0227-	0447-	0667-	1007-	2017-	3047-	4067-	6007	6212	6417	6622	6827
0008-	0228-	0448-	0668-	1008-	2018-	3048-	4068-	6008	6213	6418	6623	6828
0009-	0229-	0449-	0669-	1009-	2019-	3049-	4069-	6009	6214	6419	6624	6829
0010-	0230-	0450-	0670-	1010-	2020-	3050-	4070-	6010	6215	6420	6625	6830
0011-	0231-	0451-	0671-	1011-	2021-	3051-	4071-	6011	6216	6421	6626	6831
0012-	0232-	0452-	0672-	1012-	2022-	3052-	4072-	6012	6217	6422	6627	6832
0013-	0233-	0453-	0673-	1013-	2023-	3053-	4073-	6013	6218	6423	6628	6833
0014-	0234-	0454-	0674-	1014-	2024-	3054-	4074-	6014	6219	6424	6629	6834
0015-	0235-	0455-	0675-	1015-	2025-	3055-	4075-	6015	6220	6425	6630	6835
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See footnotes at end of table.

MIL-PRF-39006/22K

TABLE III. Substitutability data - Continued. [1/](#)

Dash number in MIL-C-39006/22B through MIL-PRF-39006/22K non-compression				PIN M39006/22-compression seal				Substitutable for dash number in MIL-C-39006/22A and /22				
				Failure rate level (%/1,000 hr)								
M	P	R	S	M (1.0)	P (0.1)	R (0.01)	S (0.001)	2/ L	M	P	R	S
---	---	---	---	---	---	---	---	7042	7124	7206	7288	7370
---	---	---	---	---	---	---	---	7043	7125	7207	7289	7371
0016-	0236-	0456-	0676-	1016-	2026-	3056-	4076-	6016	6221	6426	6631	6836
0017-	0237-	0457-	0677-	1017-	2027-	3057-	4077-	6017	6222	6427	6632	6837
0018-	0238-	0458-	0678-	1018-	2028-	3058-	4078-	6018	6223	6428	6633	6838
---	---	---	---	---	---	---	---	7044	7126	7208	7290	7372
---	---	---	---	---	---	---	---	7045	7127	7209	7291	7373
---	---	---	---	---	---	---	---	7046	7128	7210	7292	7374
0019-	0239-	0459-	0679-	1019-	2029-	3059-	4079-	6019	6224	6429	6634	6839
0020-	0240-	0460-	0680-	1020-	2030-	3060-	4080-	6020	6225	6430	6635	6840
---	---	---	---	---	---	---	---	7047	7129	7211	7293	7375
---	---	---	---	---	---	---	---	7048	7130	7212	7294	7376
0021-	0241-	0461-	0681-	1021-	2031-	3061-	4081-	6021	6226	6431	6636	6841
0022-	0242-	0462-	0682-	1022-	2032-	3062-	4082-	6022	6227	6432	6637	6842
0023-	0243-	0463-	0683-	1023-	2033-	3063-	4083-	6023	6228	6433	6638	6843
0024-	0244-	0464-	0684-	1024-	2034-	3064-	4084-	6024	6229	6434	6639	6844
0025-	0245-	0465-	0685-	1025-	2035-	3065-	4085-	6025	6230	6435	6640	6845
0026-	0246-	0466-	0686-	1026-	2036-	3066-	4086-	6026	6231	6436	6641	6846
0027-	0247-	0467-	0687-	1027-	2037-	3067-	4087-	---	---	---	---	---
0028-	0248-	0468-	0688-	1028-	2038-	3068-	4088-	---	---	---	---	---
0029-	0249-	0469-	0689-	1029-	2039-	3069-	4089-	---	---	---	---	---
0030-	0250-	0470-	0690-	1030-	2040-	3070-	4090-	6027	6232	6437	6642	6847
0031-	0251-	0471-	0691-	1031-	2041-	3071-	4091-	6028	6233	6438	6643	6848
0032-	0252-	0472-	0692-	1032-	2042-	3072-	4092-	6029	6234	6439	6644	6849
---	---	---	---	---	---	---	---	7451	7457	7463	7469	7475
---	---	---	---	---	---	---	---	7452	7458	7464	7470	7476
---	---	---	---	---	---	---	---	7453	7459	7465	7471	7477
0033-	0253-	0473-	0693-	1033-	2043-	3073-	4093-	---	---	---	---	---
0034-	0254-	0474-	0694-	1034-	2044-	3074-	4094-	---	---	---	---	---
0035-	0255-	0475-	0695-	1035-	2045-	3075-	4095-	---	---	---	---	---
0036-	0256-	0476-	0696-	1036-	2046-	3076-	4096-	6030	6235	6440	6645	6850
0037-	0257-	0477-	0697-	1037-	2047-	3077-	4097-	6031	6236	6441	6646	6851
0038-	0258-	0478-	0698-	1038-	2048-	3078-	4098-	6032	6237	6442	6647	6852
---	---	---	---	---	---	---	---	7049	7131	7213	7295	7377
---	---	---	---	---	---	---	---	7050	7132	7214	7296	7378
---	---	---	---	---	---	---	---	7051	7133	7215	7297	7379
0039-	0259-	0479-	0699-	1039-	2049-	3079-	4099-	6033	6238	6443	6648	6853
0040-	0260-	0480-	0700-	1040-	2050-	3080-	4100-	6034	6239	6444	6649	6854
---	---	---	---	---	---	---	---	7052	7134	7216	7298	7380
---	---	---	---	---	---	---	---	7053	7135	7217	7299	7381
0041-	0261-	0481-	0701-	1041-	2051-	3081-	4101-	6035	6240	6445	6650	6855
0042-	0262-	0482-	0702-	1042-	2052-	3082-	4102-	6036	6241	6446	6651	6856
0043-	0263-	0483-	0703-	1043-	2053-	3083-	4103-	6037	6242	6447	6652	6857
0044-	0264-	0484-	0704-	1044-	2054-	3084-	4104-	6038	6243	6448	6653	6858
0045-	0265-	0485-	0705-	1045-	2055-	3085-	4105-	6039	6244	6449	6654	6859
0046-	0266-	0486-	0706-	1046-	2056-	3086-	4106-	6040	6245	6450	6655	6860
0047-	0267-	0487-	0707-	1047-	2057-	3087-	4107-	6041	6246	6451	6656	6861
0048-	0268-	0488-	0708-	1048-	2058-	3088-	4108-	6042	6247	6452	6657	6862
0049-	0269-	0489-	0709-	1049-	2059-	3089-	4109-	6043	6248	6453	6658	6863
0050-	0270-	0490-	0710-	1050-	2060-	3090-	4110-	6044	6249	6454	6659	6864
0051-	0271-	0491-	0711-	1051-	2061-	3091-	4111-	6045	6250	6455	6660	6865
0052-	0272-	0492-	0712-	1052-	2062-	3092-	4112-	6046	6251	6456	6661	6866
0053-	0273-	0493-	0713-	1053-	2063-	3093-	4113-	6047	6252	6457	6662	6867
0054-	0274-	0494-	0714-	1054-	2064-	3094-	4114-	6048	6253	6458	6663	6868

See footnotes at end of table.

MIL-PRF-39006/22K

TABLE III. Substitutability data - Continued. [1/](#)

Dash number in MIL-C-39006/22B through MIL-PRF-39006/22K non-compression				PIN M39006/22-compression seal				Substitutable for dash number in MIL-C-39006/22A and /22				
				Failure rate level (%/1,000 hr)								
M	P	R	S	M (1.0)	P (0.1)	R (0.01)	S (0.001)	2/ L	M	P	R	S
0055-	0275-	0495-	0715-	1055-	2065-	3095-	4115-	6049	6254	6459	6664	6869
---	---	---	---	---	---	---	---	7054	7136	7218	7300	7382
---	---	---	---	---	---	---	---	7055	7137	7219	7301	7383
---	---	---	---	---	---	---	---	7056	7138	7220	7302	7384
0056-	0276-	0496-	0716-	1056-	2066-	3096-	4116-	6050	6255	6460	6665	6870
0057-	0277-	0497-	0717-	1057-	2067-	3097-	4117-	6051	6256	6461	6666	6871
0058-	0278-	0498-	0718-	1058-	2068-	3098-	4118-	6052	6257	6462	6667	6872
---	---	---	---	---	---	---	---	7057	7139	7221	7303	7385
---	---	---	---	---	---	---	---	7058	7140	7222	7304	7386
---	---	---	---	---	---	---	---	7059	7141	7223	7305	7387
0059-	0279-	0499-	0719-	1059-	2069-	3099-	4119-	6053	6258	6463	6668	6873
0060-	0280-	0500-	0720-	1060-	2070-	3100-	4120-	6054	6259	6464	6669	6874
---	---	---	---	---	---	---	---	7060	7142	7224	7306	7388
---	---	---	---	---	---	---	---	7061	7143	7225	7307	7389
0061-	0281-	0501-	0721-	1061-	2071-	3101-	4121-	6055	6260	6465	6670	6875
---	---	---	---	---	---	---	---	---	---	---	---	---
0062-	0282-	0502-	0722-	1062-	2072-	3102-	4122-	6056	6261	6466	6671	6876
0063-	0283-	0503-	0723-	1063-	2073-	3103-	4123-	6057	6262	6467	6672	6877
0064-	0284-	0504-	0724-	1064-	2074-	3104-	4124-	6058	6263	6468	6673	6878
0065-	0285-	0505-	0725-	1065-	2075-	3105-	4125-	6059	6264	6469	6674	6879
0066-	0286-	0506-	0726-	1066-	2076-	3106-	4126-	6060	6265	6470	6675	6880
0067-	0287-	0507-	0727-	1067-	2077-	3107-	4127-	6061	6266	6471	6676	6881
0068-	0288-	0508-	0728-	1068-	2078-	3108-	4128-	6062	6267	6472	6677	6882
0069-	0289-	0509-	0729-	1069-	2079-	3109-	4129-	6063	6268	6473	6678	6883
0070-	0290-	0510-	0730-	1070-	2080-	3110-	4130-	6064	6269	6474	6679	6884
0071-	0291-	0511-	0731-	1071-	2081-	3111-	4131-	6065	6270	6475	6680	6885
0072-	0292-	0512-	0732-	1072-	2082-	3112-	4132-	6066	6271	6476	6681	6886
0073-	0293-	0513-	0733-	1073-	2083-	3113-	4133-	6067	6272	6477	6682	6887
0074-	0294-	0514-	0734-	1074-	2084-	3114-	4134-	6068	6273	6478	6683	6888
0075-	0295-	0515-	0735-	1075-	2085-	3115-	4135-	6069	6274	6479	6684	6889
---	---	---	---	---	---	---	---	7062	7144	7226	7308	7390
---	---	---	---	---	---	---	---	7063	7145	7227	7309	7391
---	---	---	---	---	---	---	---	7064	7146	7228	7310	7392
0076-	0296-	0516-	0736-	1076-	2086-	3116-	4136-	6070	6275	6480	6685	6890
0077-	0297-	0517-	0737-	1077-	2087-	3117-	4137-	6071	6276	6481	6686	6891
0078-	0298-	0518-	0738-	1078-	2088-	3118-	4138-	6072	6277	6482	6687	6892
---	---	---	---	---	---	---	---	7065	7147	7229	7311	7393
---	---	---	---	---	---	---	---	7066	7148	7230	7312	7394
---	---	---	---	---	---	---	---	7067	7149	7231	7313	7395
0079-	0299-	0519-	0739-	1079-	2089-	3119-	4139-	6073	6278	6483	6688	6893
0080-	0300-	0520-	0740-	1080-	2090-	3120-	4140-	6074	6279	6484	6689	6894
---	---	---	---	---	---	---	---	7068	7150	7232	7314	7396
---	---	---	---	---	---	---	---	7069	7151	7233	7315	7397
0081-	0301-	0521-	0741-	1081-	2091-	3121-	4141-	6075	6280	6485	6690	6895
0082-	0302-	0522-	0742-	1082-	2092-	3122-	4142-	6076	6281	6486	6691	6896
0083-	0303-	0523-	0743-	1083-	2093-	3123-	4143-	6077	6282	6487	6692	6897
0084-	0304-	0524-	0744-	1084-	2094-	3124-	4144-	6078	6283	6488	6693	6898
0085-	0305-	0525-	0745-	1085-	2095-	3125-	4145-	6079	6284	6489	6694	6899
0086-	0306-	0526-	0746-	1086-	2096-	3126-	4146-	6080	6285	6490	6695	6900
0087-	0307-	0527-	0747-	1087-	2097-	3127-	4147-	---	---	---	---	---
0088-	0308-	0528-	0748-	1088-	2098-	3128-	4148-	---	---	---	---	---
0089-	0309-	0529-	0749-	1089-	2099-	3129-	4149-	---	---	---	---	---
0090-	0310-	0530-	0750-	1090-	2100-	3130-	4150-	6081	6286	6491	6696	6901
0091-	0311-	0531-	0751-	1091-	2101-	3131-	4151-	6082	6287	6492	6697	6902

See footnotes at end of table.

MIL-PRF-39006/22K

TABLE III. Substitutability data - Continued. [1/](#)

Dash number in MIL-C-39006/22B through MIL-PRF-39006/22K non-compression				PIN M39006/22-compression seal				Substitutable for dash number in MIL-C-39006/22A and /22				
				Failure rate level (%/1,000 hr)								
M	P	R	S	M (1.0)	P (0.1)	R (0.01)	S (0.001)	2/ L	M	P	R	S
0094-	0314-	0534-	0754-	1094-	2104-	3134-	4154-	---	---	---	---	---
0095-	0315-	0535-	0755-	1095-	2105-	3135-	4155-	---	---	---	---	---
0096-	0316-	0536-	0756-	1096-	2106-	3136-	4156-	6084	6289	6494	6699	6904
0097-	0317-	0537-	0757-	1097-	2107-	3137-	4157-	6085	6290	6495	6700	6905
0098-	0318-	0538-	0758-	1098-	2108-	3138-	4158-	6086	6291	6496	6701	6906
---	---	---	---	---	---	---	---	7070	7152	7234	7316	7398
---	---	---	---	---	---	---	---	7071	7153	7235	7317	7399
---	---	---	---	---	---	---	---	7072	7154	7236	7318	7400
0099-	0319-	0539-	0759-	1099-	2109-	3139-	4159-	6087	6292	6497	6702	6907
0100-	0320-	0540-	0760-	1100-	2110-	3140-	4160-	6088	6293	6498	6703	6908
---	---	---	---	---	---	---	---	7073	7155	7237	7319	7401
---	---	---	---	---	---	---	---	7074	7156	7238	7320	7402
0101-	0321-	0541-	0761-	1101-	2111-	3141-	4161-	6089	6294	6499	6704	6909
0102-	0322-	0542-	0762-	1102-	2112-	3142-	4162-	6090	6295	6500	6705	6910
0103-	0323-	0543-	0763-	1103-	2113-	3143-	4163-	6091	6296	6501	6706	6911
0104-	0324-	0544-	0764-	1104-	2114-	3144-	4164-	6092	6297	6502	6707	6912
0105-	0325-	0545-	0765-	1105-	2115-	3145-	4165-	6093	6298	6503	6708	6913
0106-	0326-	0546-	0766-	1106-	2116-	3146-	4166-	6094	6299	6504	6709	6914
0107-	0327-	0547-	0767-	1107-	2117-	3147-	4167-	6095	6300	6505	6710	6915
0108-	0328-	0548-	0768-	1108-	2118-	3148-	4168-	6096	6301	6506	6711	6916
0109-	0329-	0549-	0769-	1109-	2119-	3149-	4169-	6097	6302	6507	6712	6917
0110-	0330-	0550-	0770-	1110-	2120-	3150-	4170-	6098	6303	6508	6713	6918
0111-	0331-	0551-	0771-	1111-	2121-	3151-	4171-	6099	6304	6509	6714	6919
0112-	0332-	0552-	0772-	1112-	2122-	3152-	4172-	6100	6305	6510	6715	6920
0113-	0333-	0553-	0773-	1113-	2123-	3153-	4173-	6101	6306	6511	6716	6921
0114-	0334-	0554-	0774-	1114-	2124-	3154-	4174-	6102	6307	6512	6717	6922
0115-	0335-	0555-	0775-	1115-	2125-	3155-	4175-	6103	6308	6513	6718	6923
---	---	---	---	---	---	---	---	7075	7157	7239	7321	7403
---	---	---	---	---	---	---	---	7076	7158	7240	7322	7404
---	---	---	---	---	---	---	---	7077	7159	7241	7323	7405
0116-	0336-	0556-	0776-	1116-	2126-	3156-	4176-	6104	6309	6514	6719	6924
0117-	0337-	0557-	0777-	1117-	2127-	3157-	4177-	6105	6310	6515	6720	6925
0118-	0338-	0558-	0778-	1118-	2128-	3158-	4178-	6106	6311	6516	6721	6926
---	---	---	---	---	---	---	---	7078	7160	7242	7324	7406
---	---	---	---	---	---	---	---	7079	7161	7243	7325	7407
---	---	---	---	---	---	---	---	7080	7162	7244	7326	7408
0119-	0339-	0559-	0779-	1119-	2129-	3159-	4179-	6107	6312	6517	6722	6927
0120-	0340-	0560-	0780-	1120-	2130-	3160-	4180-	6108	6313	6518	6723	6928
0092-	0312-	0532-	0752-	1092-	2102-	3132-	4152-	6083	6288	6493	6698	6903
---	---	---	---	---	---	---	---	7454	7460	7466	7472	7478
---	---	---	---	---	---	---	---	7455	7461	7467	7473	7479
---	---	---	---	---	---	---	---	7456	7462	7468	7474	7480
0093-	0313-	0533-	0753-	1093-	2103-	3133-	4153-	---	---	---	---	---
0124-	0344-	0564-	0784-	1124-	2134-	3164-	4184-	6112	6317	6522	6727	6932
0125-	0345-	0565-	0785-	1125-	2135-	3165-	4185-	6113	6318	6523	6728	6933
0126-	0346-	0566-	0786-	1126-	2136-	3166-	4186-	6114	6319	6524	6729	6934
0127-	0347-	0567-	0787-	1127-	2137-	3167-	4187-	6115	6320	6525	6730	6935
0128-	0348-	0568-	0788-	1128-	2138-	3168-	4188-	6116	6321	6526	6731	6936
0129-	0349-	0569-	0789-	1129-	2139-	3169-	4189-	6117	6322	6527	6732	6937
0130-	0350-	0570-	0790-	1130-	2140-	3170-	4190-	6118	6323	6528	6733	6938
0131-	0351-	0571-	0791-	1131-	2141-	3171-	4191-	6119	6324	6529	6734	6939
0132-	0352-	0572-	0792-	1132-	2142-	3172-	4192-	6120	6325	6530	6735	6940
0133-	0353-	0573-	0793-	1133-	2143-	3173-	4193-	6121	6326	6531	6736	6941

See footnotes at end of table.

MIL-PRF-39006/22K

TABLE III. Substitutability data - Continued. [1/](#)

Dash number in MIL-C-39006/22B through MIL-PRF-39006/22K non-compression				PIN M39006/22-compression seal				Substitutable for dash number in MIL-C-39006/22A and /22				
				Failure rate level (%/1,000 hr)								
M	P	R	S	M (1.0)	P (0.1)	R (0.01)	S (0.001)	2/ L	M	P	R	S
0134-	0354-	0574-	0794-	1134-	2144-	3174-	4194-	6122	6327	6532	6737	6942
0135-	0355-	0575-	0795-	1135-	2145-	3175-	4195-	6123	6328	6533	6738	6943
---	---	---	---	---	---	---	---	7083	7165	7247	7329	7411
---	---	---	---	---	---	---	---	7084	7166	7248	7330	7412
---	---	---	---	---	---	---	---	7085	7167	7249	7331	7413
0136-	0356-	0576-	0796-	1136-	2146-	3176-	4196-	6124	6329	6534	6739	6944
0137-	0357-	0577-	0797-	1137-	2147-	3177-	4197-	6125	6330	6535	6740	6945
0138-	0358-	0578-	0798-	1138-	2148-	3178-	4198-	6126	6331	6536	6741	6946
---	---	---	---	---	---	---	---	7086	7168	7250	7332	7414
---	---	---	---	---	---	---	---	7087	7169	7251	7333	7415
---	---	---	---	---	---	---	---	7088	7170	7252	7334	7416
0139-	0359-	0579-	0799-	1139-	2149-	3179-	4199-	6127	6332	6537	6742	6947
0140-	0360-	0580-	0800-	1140-	2150-	3180-	4200-	6128	6333	6538	6743	6948
---	---	---	---	---	---	---	---	7089	7171	7253	7335	7417
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0141-	0361-	0581-	0801-	1141-	2151-	3181-	4201-	6129	6334	6539	6744	6949
0142-	0362-	0582-	0802-	1142-	2152-	3182-	4202-	6130	6335	6540	6745	6950
0143-	0363-	0583-	0803-	1143-	2153-	3183-	4203-	6131	6336	6541	6746	6951
0144-	0364-	0584-	0804-	1144-	2154-	3184-	4204-	6132	6337	6542	6747	6952
0145-	0365-	0585-	0805-	1145-	2155-	3185-	4205-	6133	6338	6543	6748	6953
0146-	0366-	0586-	0806-	1146-	2156-	3186-	4206-	6134	6339	6544	6749	6954
0147-	0367-	0587-	0807-	1147-	2157-	3187-	4207-	6135	6340	6545	6750	6955
0148-	0368-	0588-	0808-	1148-	2158-	3188-	4208-	6136	6341	6546	6751	6956
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---	---	---	---	---	---	---	---	7082	7164	7246	7328	7410
0121-	0341-	0561-	0781-	1121-	2131-	3161-	4181-	6109	6314	6519	6724	6929
0122-	0342-	0562-	0782-	1122-	2132-	3162-	4182-	6110	6315	6520	6725	6930
0123-	0343-	0563-	0783-	1123-	2133-	3163-	4183-	6111	6316	6521	6726	6931
0157-	0377-	0597-	0817-	1157-	2167-	3197-	4217-	6145	6350	6555	6760	6965
0158-	0378-	0598-	0818-	1158-	2168-	3198-	4218-	6146	6351	6556	6761	6966
---	---	---	---	---	---	---	---	7094	7176	7258	7340	7422
---	---	---	---	---	---	---	---	7095	7177	7259	7341	7423
---	---	---	---	---	---	---	---	7096	7178	7260	7342	7424
0159-	0379-	0599-	0819-	1159-	2169-	3199-	4219-	6147	6352	6557	6762	6967
0160-	0380-	0600-	0820-	1160-	2170-	3200-	4220-	6148	6353	6558	6763	6968
---	---	---	---	---	---	---	---	7097	7179	7261	7343	7425
---	---	---	---	---	---	---	---	7098	7180	7262	7344	7426
0161-	0381-	0601-	0821-	1161-	2171-	3201-	4221-	6149	6354	6559	6764	6969
0162-	0382-	0602-	0822-	1162-	2172-	3202-	4222-	6150	6355	6560	6765	6970
0163-	0383-	0603-	0823-	1163-	2173-	3203-	4223-	6151	6356	6561	6766	6971
0164-	0384-	0604-	0824-	1164-	2174-	3204-	4224-	6152	6357	6562	6767	6972
0165-	0385-	0605-	0825-	1165-	2175-	3205-	4225-	6153	6358	6563	6768	6973
0166-	0386-	0606-	0826-	1166-	2176-	3206-	4226-	6154	6359	6564	6769	6974
0167-	0387-	0607-	0827-	1167-	2177-	3207-	4227-	6155	6360	6565	6770	6975
0168-	0388-	0608-	0828-	1168-	2178-	3208-	4228-	6156	6361	6566	6771	6976
0169-	0389-	0609-	0829-	1169-	2179-	3209-	4229-	6157	6362	6567	6772	6977
0170-	0390-	0610-	0830-	1170-	2180-	3210-	4230-	6158	6363	6568	6773	6978
0171-	0391-	0611-	0831-	1171-	2181-	3211-	4231-	6159	6364	6569	6774	6979
0172-	0392-	0612-	0832-	1172-	2182-	3212-	4232-	6160	6365	6570	6775	6980
0173-	0393-	0613-	0833-	1173-	2183-	3213-	4233-	6161	6366	6571	6776	6981
0174-	0394-	0614-	0834-	1174-	2184-	3214-	4234-	6162	6367	6572	6777	6982
0175-	0395-	0615-	0835-	1175-	2185-	3215-	4235-	6163	6368	6573	6778	6983
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See footnotes at end of table.

MIL-PRF-39006/22K

TABLE III. Substitutability data - Continued. [1/](#)

Dash number in MIL-C-39006/22B through MIL-PRF-39006/22K non-compression				PIN M39006/22-compression seal				Substitutable for dash number in MIL-C-39006/22A and /22				
				Failure rate level (%/1,000 hr)								
M	P	R	S	M (1.0)	P (0.1)	R (0.01)	S (0.001)	2/ L	M	P	R	S
---	---	---	---	---	---	---	---	7100	7182	7264	7346	7428
---	---	---	---	---	---	---	---	7101	7183	7265	7347	7429
0176-	0396-	0616-	0836-	1176-	2186-	3216-	4236-	6164	6369	6574	6779	6984
0177-	0394-	0617-	0837-	1177-	2187-	3217-	4237-	6165	6370	6575	6780	6985
0178-	0398-	0618-	0838-	1178-	2188-	3218-	4238-	6166	6371	6576	6781	6986
---	---	---	---	---	---	---	---	7102	7184	7266	7348	7430
---	---	---	---	---	---	---	---	7103	7185	7267	7349	7431
---	---	---	---	---	---	---	---	7104	7186	7268	7350	7432
0149-	0369-	0589-	0809-	1149-	2159-	3189-	4209-	6137	6342	6547	6752	6957
0150-	0370-	0590-	0810-	1150-	2160-	3190-	4210-	6138	6343	6548	6753	6958
0151-	0371-	0591-	0811-	1151-	2161-	3191-	4211-	6139	6344	6549	6754	6959
0152-	0372-	0592-	0812-	1152-	2162-	3192-	4212-	6140	6345	6550	6755	6960
0153-	0373-	0593-	0813-	1153-	2163-	3193-	4213-	6141	6346	6551	6756	6961
0154-	0374-	0594-	0814-	1154-	2164-	3194-	4214-	6142	6347	6552	6757	6962
0155-	0375-	0595-	0815-	1155-	2165-	3195-	4215-	6143	6348	6553	6758	6963
---	---	---	---	---	---	---	---	7091	7173	7255	7337	7419
---	---	---	---	---	---	---	---	7092	7174	7256	7338	7420
---	---	---	---	---	---	---	---	7093	7175	7257	7339	7421
0156-	0376-	0596-	0816-	1156-	2166-	3196-	4216-	6144	6349	6554	6759	6964
0188-	0408-	0628-	0848-	1188-	2198-	3228-	4248-	6176	6381	6586	6791	6996
0189-	0409-	0629-	0849-	1189-	2199-	3229-	4249-	6177	6382	6587	6792	6997
0190-	0410-	0630-	0850-	1190-	2200-	3230-	4250-	6178	6383	6588	6793	6998
0191-	0411-	0631-	0851-	1191-	2201-	3231-	4251-	6179	6384	6589	6794	6999
0192-	0412-	0632-	0852-	1192-	2202-	3232-	4252-	6180	6385	6590	6795	7000
0193-	0413-	0633-	0853-	1193-	2203-	3233-	4253-	6181	6386	6591	6796	7001
0194-	0414-	0634-	0854-	1194-	2204-	3234-	4254-	6182	6387	6592	6797	7002
0195-	0415-	0635-	0855-	1195-	2205-	3235-	4255-	6183	6388	6593	6798	7003
---	---	---	---	---	---	---	---	7107	7189	7271	7353	7435
---	---	---	---	---	---	---	---	7108	7190	7272	7354	7436
---	---	---	---	---	---	---	---	7109	7191	7273	7355	7437
0196-	0416-	0636-	0856-	1196-	2206-	3236-	4256-	6184	6389	6594	6799	7004
0197-	0417-	0637-	0857-	1197-	2207-	3237-	4257-	6185	6390	6595	6800	7005
0198-	0418-	0638-	0858-	1198-	2208-	3238-	4258-	6186	6391	6596	6801	7006
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---	---	---	---	---	---	---	---	7111	7193	7275	7357	7439
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0199-	0419-	0639-	0859-	1199-	2209-	3239-	4259-	6187	6392	6597	6802	7007
0200-	0420-	0640-	0860-	1200-	2210-	3240-	4260-	6188	6393	6598	6803	7008
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---	---	---	---	---	---	---	---	7114	7196	7278	7360	7442
0201-	0421-	0641-	0861-	1201-	2211-	3241-	4261-	6189	6394	6599	6804	7009
0202-	0422-	0642-	0862-	1202-	2212-	3242-	4262-	6190	6395	6600	6805	7010
0203-	0423-	0643-	0863-	1203-	2213-	3243-	4263-	6191	6396	6601	6806	7011
0204-	0424-	0644-	0864-	1204-	2214-	3244-	4264-	6192	6397	6602	6807	7012
0179-	0399-	0619-	0839-	1179-	2189-	3219-	4239-	6167	6372	6577	6782	6987
0180-	0400-	0620-	0840-	1180-	2190-	3220-	4240-	6168	6373	6578	6783	6988
---	---	---	---	---	---	---	---	7105	7187	7269	7351	7433
---	---	---	---	---	---	---	---	7106	7188	7270	7352	7434
0181-	0401-	0621-	0841-	1181-	2191-	3221-	4241-	6169	6374	6579	6784	6989
0182-	0402-	0622-	0842-	1182-	2192-	3222-	4242-	6170	6375	6580	6785	6990

See footnotes at end of table.

MIL-PRF-39006/22K

TABLE III. Substitutability data - Continued. 1/

Dash number in MIL-C-39006/22B through MIL-PRF-39006/22K non-compression				PIN M39006/22-compression seal				Substitutable for dash number in MIL-C-39006/22A and /22				
				Failure rate level (%/1,000 hr)								
M	P	R	S	M (1.0)	P (0.1)	R (0.01)	S (0.001)	<u>2/</u> L	M	P	R	S
0183-	0403-	0623-	0843-	1183-	2193-	3223-	4243-	6171	6376	6581	6786	6991
0184-	0404-	0624-	0844-	1184-	2194-	3224-	4244-	6172	6377	6582	6787	6992
0185-	0405-	0625-	0845-	1185-	2195-	3225-	4245-	6173	6378	6583	6788	6993
0186-	0406-	0626-	0846-	1186-	2196-	3226-	4246-	6174	6379	6584	6789	6994
0187-	0407-	0627-	0847-	1187-	2197-	3227-	4247-	6175	6380	6585	6790	6995
0205-	0425-	0645-	0865-	1205-	2215-	3245-	4265-	6193	6398	6603	6808	7013
0206-	0426-	0646-	0866-	1206-	2216-	3246-	4266-	6194	6399	6604	6809	7014
0207-	0427-	0647-	0867-	1207-	2217-	3247-	4267-	6195	6400	6605	6810	7015
0208-	0428-	0648-	0868-	1208-	2218-	3248-	4268-	6196	6401	6606	6811	7016
0209-	0429-	0649-	0869-	1209-	2219-	3249-	4269-	6197	6402	6607	6812	7017
0210-	0430-	0650-	0870-	1210-	2220-	3250-	4270-	6198	6403	6608	6813	7018
0211-	0431-	0651-	0871-	1211-	2221-	3251-	4271-	6199	6404	6609	6814	7019
0212-	0432-	0652-	0872-	1212-	2222-	3252-	4272-	6200	6405	6610	6815	7020
0213-	0433-	0653-	0873-	1213-	2223-	3253-	4273-	6201	6406	6611	6816	7021
0214-	0434-	0654-	0874-	1214-	2224-	3254-	4274-	6202	6407	6612	6817	7022
0215-	0435-	0655-	0875-	1215-	2225-	3255-	4275-	6203	6408	6613	6818	7023
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---	---	---	---	---	---	---	---	7116	7198	7280	7362	7444
---	---	---	---	---	---	---	---	7117	7199	7281	7363	7445
0216-	0436-	0656-	0876-	1216-	2226-	3256-	4276-	6204	6409	6614	6819	7024
0217-	0437-	0657-	0877-	1217-	2227-	3257-	4277-	6205	6410	6615	6820	7025
0218-	0438-	0658-	0878-	1218-	2228-	3258-	4278-	6206	6411	6616	6821	7026
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---	---	---	---	---	---	---	---	7119	7201	7283	7365	7447
---	---	---	---	---	---	---	---	7120	7202	7284	7366	7448
0219-	0439-	0659-	0879-	1219-	2229-	3259-	4279-	7027	7030	7033	7036	7039
0220-	0440-	0660-	0880-	1220-	2230-	3260-	4280-	7028	7031	7034	7037	7040
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1/ Substitutability data are unilateral; i.e., the dash number in MIL-C-39006/22B through MIL-PRF-39006/22K is substitutable for the dash number in MIL-C-39006/22 and MIL-C-39006/22A, and not vice versa.

2/ Failure rate level "L" is inactive for design. Use failure rate level "M" for replacement.

Referenced documents. In addition to [MIL-PRF-39006](#), this document references the following:

MIL-PRF-39006/9	MIL-STD-202-108	MIL-STD-202-214
MIL-PRF-39006/25	MIL-STD-202-112	MIL-STD-202-301
MIL-PRF-39006/30	MIL-STD-202-204	MIL-STD-202-302
MIL-STD-202-101	MIL-STD-202-208	MIL-STD-202-305
MIL-STD-202-105	MIL-STD-202-210	MIL-STD-810
MIL-STD-202-106	MIL-STD-202-211	MIL-STD-1276
MIL-STD-202-107	MIL-STD-202-213	

Changes from previous issues. The margins of this specification are marked with vertical lines to indicate where changes from 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

Preparing activity:
DLA - CC

(Project 5910-2018-003)

Review activities:
Navy - AS, MC, OS
Air Force - 19, 99

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 ASSIST Online database at <https://assist.dla.mil>.