

Hermetic Axial Capacitors



TAA Series

SOLID TANTALUM HERMETICALLY SEALED AXIAL LEADED CAPACITORS



TAA: Fully hermetically sealed, of rugged construction and high reliability for use in military and professional equipment.

1. Extremely low leakage current.
2. Excellent capacitance to size ratio.
3. Available taped and reeled for automatic insertion.
4. Marked with AVX logo, capacitor type, capacitance, capacitance tolerance, rated voltage, polarity indication and date of manufacture.
5. Approved to CECC 30-201-801 and IECQ QC300 201 GB0002 supplied conforming to the limits of MIL-C-39003 style CSR, CTS 13 and CTS 32.

CASE DIMENSIONS: millimeters (inches)

	Case Size	L ₁ max.	L ₂ max.	D max.	Lead Length min.	d nom.	Weight max. g
	A	7.20 (0.280)	10.7 (0.420)	3.60 (0.140)	28.0 (1.100)	0.50	0.7
	B	12.0 (0.470)	15.5 (0.610)	4.90 (0.190)	28.0 (1.100)	0.50	1.3
	C	17.3 (0.680)	20.9 (0.820)	7.50 (0.290)	23.0 (0.900)	0.60	4.7
	D	19.9 (0.780)	23.4 (0.920)	9.00 (0.350)	22.0 (0.800)	0.60	7.4

Note: The tabulated dimensions are for non-insulated capacitors. Insulated capacitors are standard, dimension L₁ will increase by 0.8mm maximum, and dimension D by 0.2mm maximum.

TAA

Type

A

Case Code

105

Capacitance Code
pF code:
1st two digits represent significant figures,
3rd digit represents multiplier (number of zeros to follow)

M

Capacitance Tolerance
K = ±10%
M = ±20%
(For J = ±5% tolerance, please consult factory)

035

Rated DC Voltage

G

TAA Packaging Suffixes
(see page 72)

*Not recommended for new designs



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TECHNICAL SPECIFICATIONS

Construction:		Hermetically sealed; axial terminations							Temperature Range:		-55°C to +125°C		
Capacitance Range:		0.1µF to 330µF							Environmental Classification:		55/125/56 (IEC 68-2)		
Capacitance Tolerance:		±20%; ±10%; ±5%							Dissipation Factor: (tan δ)		≤0.04 for C=0.1 to 4.7µF ≤0.06 for C= 6.8 to 100µF ≤0.08 for C= 150 to 330µF		
Measuring Conditions:		120 Hz, 20°C							Approvals:		BS CECC 30 201-001 IECQ QC 300 201 GB0002 CECC 30 201-005 CTS 13 CECC 30 201-019 CTS 32		
Rated Voltage VDC	≤+85°C:	6.3	10	16	20	25	35	50					
Category Voltage VDC	≤+125°C:	4	6.3	10	13	17	23	33					
Surge Voltage VDC	≤+85°C:	8	13	20	26	33	46	65					
	≤+125°C:	5	9	12	16	21	28	40					

Capacitance Range (letter denotes case code)								
Capacitance µF	Cap Code	Rated voltage DC						
		6.3V	10V	16V	20V	25V	35V	50V
0.1	104						A	A
0.15	154						A	A
0.22	224						A	A
0.33	334						A	A
0.47	474						A	A
0.68	684					A	A	A
1.0	105						A	A
1.5	155				A	A	B	B
2.2	225	A			A		B	B
3.3	335	A		A			B	B
4.7	475	A	A		B	B	B	B
6.8	685	A		B	B		B	C
10	106		B		B	B	C	C
15	156	B		B	B		C	C
22	226			B	C		C	D
33	336	B	B	C	C	C	D	
47	476	B	C	C	C		D	
68	686	C		C	D	D		
100	107		C	D	D			
150	157	C	D	D				
220	227	D	D					
330	337	D						

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RATINGS AND PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance μF	DCL (μA) Max.	DF % Max.	ESR Max. (Ω) @ 100 kHz
6.3 volt @ 85°C (4 volt @ 125°C)					
TAAA225(*)006	A	2.2	0.5	4	N/A
TAAA335(*)006	A	3.3	0.5	4	N/A
TAAA475(*)006	A	4.7	0.5	4	N/A
TAAA685(*)006	A	6.8	0.5	6	5.0
TAAB156(*)006	B	15	1.0	6	2.3
TAAB336(*)006	B	3.3	1.0	6	2.0
TAAB476(*)006	B	47	3.0	6	1.6
TAAC686(*)006	C	68	4.5	6	1.0
TAAC157(*)006	C	150	9.5	8	0.8
TAAD227(*)006	D	220	14.0	8	0.6
TAAD337(*)006	D	330	20.0	8	0.5
10 volt @ 85°C (6.3 volt @ 125°C)					
TAAA475(*)010	A	4.7	0.5	6	5.0
TAAB106(*)010	B	10	1.0	6	2.6
TAAB336(*)010	B	33	3.5	6	1.6
TAAC476(*)010	C	47	3.0	6	1.1
TAAC107(*)010	C	100	10.0	6	1.0
TAAD157(*)010	D	150	15.0	8	0.8
TAAD227(*)010	D	220	20.0	8	0.5
16 volt @ 85°C (10 volt @ 125°C)					
TAAA335(*)016	A	3.3	0.5	6	6.0
TAAB685(*)016	B	6.8	0.8	6	2.5
TAAB156(*)016	B	15	2.4	6	2.0
TAAB226(*)016	B	22	3.5	6	1.6
TAAC336(*)016	C	33	5.8	6	1.2
TAAC476(*)016	C	47	7.3	6	1.0
TAAC686(*)016	C	68	10.0	6	0.8
TAAD107(*)016	D	100	15.0	6	0.7
TAAD157(*)016	D	150	20.0	8	0.5
20 volt @ 85°C (13 volt @ 125°C)					
TAAA155(*)020	A	1.5	0.5	4	9.0
TAAA225(*)020	A	2.2	0.5	4	6.5
TAAB475(*)020	B	4.7	0.8	4	3.0
TAAB685(*)020	B	6.8	1.0	6	2.5
TAAB106(*)020	B	10	2.0	6	2.6
TAAB156(*)020	B	15	3.0	6	1.8
TAAC226(*)020	C	22	4.5	6	1.3
TAAC336(*)020	C	33	7.0	6	1.2
TAAC476(*)020	C	47	9.5	6	0.9
TAAD686(*)020	D	68	13.5	6	0.8
TAAD107(*)020	D	100	20.0	6	0.5

AVX Part No.	Case Size	Capacitance μF	DCL (μA) Max.	DF % Max.	ESR Max. (Ω) @ 100 kHz
25 volt @ 85°C (17 volt @ 125°C)					
TAAA684(*)025	A	6.8	0.5	4	9.5
TAAA155(*)025	A	1.5	0.5	4	7.5
TAAB475(*)025	B	4.7	1.2	4	2.8
TAAB106(*)025	B	10	2.5	6	2.0
TAAC336(*)025	C	33	8.5	6	1.0
TAAD686(*)025	D	68	15.0	6	0.6
35 volt @ 85°C (23 volt @ 125°C)					
TAAA104(*)035	A	0.10	0.5	4	N/A
TAAA154(*)035	A	0.15	0.5	4	N/A
TAAA224(*)035	A	0.22	0.5	4	N/A
TAAA334(*)035	A	0.33	0.5	4	N/A
TAAA474(*)035	A	0.47	0.5	4	N/A
TAAA684(*)035	A	0.68	0.5	4	10.0
TAAA105(*)035	A	1.0	0.5	4	8.0
TAAB155(*)035	B	1.5	0.5	4	6.0
TAAB225(*)035	B	2.2	1.0	4	6.0
TAAB335(*)035	B	3.3	1.0	4	3.5
TAAB475(*)035	B	4.7	1.5	4	2.5
TAAB685(*)035	B	6.8	2.5	6	2.0
TAAC106(*)035	C	10	3.5	6	1.6
TAAC156(*)035	C	15	5.0	6	1.2
TAAC226(*)035	C	22	7.5	6	1.0
TAAD336(*)035	D	33	10.0	6	0.8
TAAD476(*)035	D	47	10.0	6	0.6
50 volt @ 85°C (33 volt @ 125°C)					
TAAA104(*)050	A	0.10	0.5	4	N/A
TAAA154(*)050	A	0.15	0.5	4	N/A
TAAA224(*)050	A	0.22	0.5	4	N/A
TAAA334(*)050	A	0.33	0.5	4	N/A
TAAA474(*)050	A	0.47	0.5	4	N/A
TAAA684(*)050	A	0.68	0.5	4	10.0
TAAA105(*)050	A	1.0	0.5	4	8.0
TAAB155(*)050	B	1.5	0.8	4	6.0
TAAB225(*)050	B	2.2	1.1	6	6.0
TAAB335(*)050	B	3.3	1.7	6	3.5
TAAB475(*)050	B	4.7	2.4	6	2.5
TAAC685(*)050	C	6.8	3.4	6	2.0
TAAC106(*)050	C	10	5.0	6	1.6
TAAC156(*)050	C	15	7.5	6	1.2
TAAD226(*)050	D	22	11.0	6	1.0

(*) Insert capacitance tolerance code; M for $\pm 20\%$, K for $\pm 10\%$ and J for $\pm 5\%$

NOTE: Voltage ratings are minimum values. AVX reserves the right to supply higher voltage ratings in the same case size.

Mouser Electronics

Authorized Distributor

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AVX:

TAAC107K010G	TAAC156M035G	TAAC336K020G	TAAA474M050G	TAAB475M050G	TAAA104K035G
TAAA104K050G	TAAA105K035G	TAAA105K050G	TAAA105M035G	TAAA224K035G	TAAA224M035G
TAAA225K020G	TAAA225M020G	TAAA334K035G	TAAA335M016G	TAAA474K035G	TAAA475K010G
TAAA475M010G	TAAA685M006G	TAAB106K010G	TAAB106K020G	TAAB106M020G	TAAB155K035G
TAAB155M035G	TAAB156K020G	TAAB156M020G	TAAB226K016G	TAAB226M016G	TAAB335K050G
TAAB336K010G	TAAB336M010G	TAAB475K020G	TAAB475K035G	TAAB475K050G	TAAB475M035G
TAAB685K035G	TAAB685M035G	TAAC106K035G	TAAC106K050G	TAAC106M035G	TAAC106M050G
TAAC107M010G	TAAC156K035G	TAAC156K050G	TAAC156M050G	TAAC226K035G	TAAC336K025G
TAAC476K020G	TAAC476M020G	TAAC686K016G	TAAC686M016G	TAAD107K020G	TAAD107M020G
TAAD157K010G	TAAD157K016G	TAAD157M010G	TAAD157M016G	TAAD226K050G	TAAD227K010G
TAAD227M010G	TAAD336K035G	TAAD336M035G	TAAD476K035G	TAAD476M035G	TAAD686K020G
TAAD337K006G	TAAD107M016G				