

Component Research Company AP01

1655 26th Street Santa Monica California 90404
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A-05-17-27
METALLIZED
PLASTIC FILM
CAPACITOR

Table 1 Specifications		See TABLE 11 for part numbers and case dimensions	CASE DIMENSIONS	TOLERANCE LIMITS
CONSTRUCTION	Metallized plastic film, radial leads, plastic case		T	+/- 0.015
OPERATING TEMPERATURE	-55C to 85C derate linearly to 50% of rated voltage at 125C		L	+/- 0.015
VOLTAGE RATING	50 VDC		H	+/- 0.030
DIELECTRIC ABSORPTION	0.1% maximum at 25C at 50 VDC		S	+/- 0.010
DISSIPATION FACTOR	0.25% maximum at 1KHz at 25C, 85C and 125C		D	+/- 0.002
DIELECTRIC STRENGTH	200% D.C. volts terminal to terminal for 60 seconds minimum			
TEMPERATURE COEFFICIENT	0 to +2.0% from 25C to -55C 0 to -2.0% from 25C to +85C 0 to -4.0% from 25C to +125C			
CAPACITANCE STABILITY	+/- 0.25% from -55C TO +125C			
INSULATION RESISTANCE	100,000 megohm-uF need not exceed 500,000 megohms at 25C 5,000 megohm-uF need not exceed 50,000 megohms at 85C 100 megohm-uF need not exceed 1,000 megohms at 125C			

AP01 Quality Conformance Inspection

TEST NO.	TEST	TEST CONDITION	TEST METH. MIL-C-83421	TEST LIMIT	QUALITY LEVEL
1	DC HI-POT (TERMINAL TO TERMINAL)	Apply 100 VDC for 60 seconds min.	4.7.6	No shorts	100 %
2	INSULATION RESISTANCE	At 25C at 50 VDC	4.7.7	100,000 megohm - uF need not exceed 500,000 megohms	100 %
3	% CAPACITANCE TOLERANCE	At 25C at 1 KHz	4.7.8	Per part number	100 %
4	% DISSIPATION FACTOR	At 25C at 1 KHz	4.7.9	0.25% maximum	100 %
5	VISUAL AND MECHANICAL INSPECTION	For marking, dimensions and workmanship	4.7.1	Per specification	1 % AQL

1. Capacitors are packaged and shipped with Certification of Conformance.
2. Traceability to production and test records by permanent marking of parts with date code lot.
3. Process and inspection data is maintained on file per NHB 5300.4(1C), MIL-Q-9858 and MIL-STD-790.

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Table II
Style AP01
50 VDC

UF	Part Numbers					Dimensions				
	1/2%	1%	2%	5%	10%	T	L	H	S	D
0.0010	AP01B102D	AP01B102F	AP01B102G	AP01B102J	AP01B102K	0.125	0.500	0.280	0.400	0.020
0.0012	AP01B122D	AP01B122F	AP01B122G	AP01B122J	AP01B122K	0.125	0.500	0.280	0.400	0.020
0.0015	AP01B152D	AP01B152F	AP01B152G	AP01B152J	AP01B152K	0.125	0.500	0.280	0.400	0.020
0.0018	AP01B182D	AP01B182F	AP01B182G	AP01B182J	AP01B182K	0.125	0.500	0.280	0.400	0.020
0.0022	AP01B222D	AP01B222F	AP01B222G	AP01B222J	AP01B222K	0.125	0.500	0.280	0.400	0.020
0.0027	AP01B272D	AP01B272F	AP01B272G	AP01B272J	AP01B272K	0.125	0.500	0.280	0.400	0.020
0.0033	AP01B332D	AP01B332F	AP01B332G	AP01B332J	AP01B332K	0.125	0.500	0.280	0.400	0.020
0.0039	AP01B392D	AP01B392F	AP01B392G	AP01B392J	AP01B392K	0.125	0.500	0.280	0.400	0.020
0.0047	AP01B472D	AP01B472F	AP01B472G	AP01B472J	AP01B472K	0.125	0.500	0.280	0.400	0.020
0.0056	AP01B562D	AP01B562F	AP01B562G	AP01B562J	AP01B562K	0.125	0.500	0.280	0.400	0.020
0.0068	AP01B682D	AP01B682F	AP01B682G	AP01B682J	AP01B682K	0.125	0.500	0.280	0.400	0.020
0.0082	AP01B822D	AP01B822F	AP01B822G	AP01B822J	AP01B822K	0.125	0.500	0.280	0.400	0.020
0.0100	AP01B103D	AP01B103F	AP01B103G	AP01B103J	AP01B103K	0.125	0.500	0.280	0.400	0.020
0.0120	AP01B123D	AP01B123F	AP01B123G	AP01B123J	AP01B123K	0.195	0.500	0.375	0.400	0.025
0.0150	AP01B153D	AP01B153F	AP01B153G	AP01B153J	AP01B153K	0.195	0.500	0.375	0.400	0.025
0.0180	AP01B183D	AP01B183F	AP01B183G	AP01B183J	AP01B183K	0.195	0.500	0.375	0.400	0.025
0.0220	AP01B223D	AP01B223F	AP01B223G	AP01B223J	AP01B223K	0.195	0.500	0.375	0.400	0.025
0.0270	AP01B273D	AP01B273F	AP01B273G	AP01B273J	AP01B273K	0.195	0.500	0.375	0.400	0.025
0.0330	AP01B333D	AP01B333F	AP01B333G	AP01B333J	AP01B333K	0.195	0.500	0.375	0.400	0.025
0.0390	AP01B393D	AP01B393F	AP01B393G	AP01B393J	AP01B393K	0.195	0.500	0.375	0.400	0.025
0.0470	AP01B473D	AP01B473F	AP01B473G	AP01B473J	AP01B473K	0.225	0.600	0.375	0.500	0.025
0.0560	AP01B563D	AP01B563F	AP01B563G	AP01B563J	AP01B563K	0.225	0.600	0.375	0.500	0.025
0.0680	AP01B683D	AP01B683F	AP01B683G	AP01B683J	AP01B683K	0.225	0.600	0.375	0.500	0.025
0.0820	AP01B823D	AP01B823F	AP01B823G	AP01B823J	AP01B823K	0.225	0.600	0.375	0.500	0.025
0.1000	AP01B104D	AP01B104F	AP01B104G	AP01B104J	AP01B104K	0.225	0.600	0.375	0.500	0.025
0.1200	AP01B124D	AP01B124F	AP01B124G	AP01B124J	AP01B124K	0.295	0.600	0.375	0.500	0.025
0.1500	AP01B154D	AP01B154F	AP01B154G	AP01B154J	AP01B154K	0.295	0.600	0.375	0.500	0.025
0.1800	AP01B184D	AP01B184F	AP01B184G	AP01B184J	AP01B184K	0.500	0.750	0.375	0.650	0.025
0.2200	AP01B224D	AP01B224F	AP01B224G	AP01B224J	AP01B224K	0.500	0.750	0.375	0.650	0.025
0.2700	AP01B274D	AP01B274F	AP01B274G	AP01B274J	AP01B274K	0.500	0.750	0.375	0.650	0.025
0.3300	AP01B334D	AP01B334F	AP01B334G	AP01B334J	AP01B334K	0.600	1.500	0.550	1.400	0.032
0.3900	AP01B394D	AP01B394F	AP01B394G	AP01B394J	AP01B394K	0.600	1.500	0.550	1.400	0.032
0.4700	AP01B474D	AP01B474F	AP01B474G	AP01B474J	AP01B474K	0.600	1.500	0.550	1.400	0.032
0.5600	AP01B564D	AP01B564F	AP01B564G	AP01B564J	AP01B564K	0.600	1.500	0.550	1.400	0.032
0.6800	AP01B684D	AP01B684F	AP01B684G	AP01B684J	AP01B684K	0.600	1.500	0.550	1.400	0.032
0.8200	AP01B824D	AP01B824F	AP01B824G	AP01B824J	AP01B824K	0.600	1.500	0.550	1.400	0.032
1.0000	AP01B105D	AP01B105F	AP01B105G	AP01B105J	AP01B105K	0.600	1.500	0.550	1.400	0.032

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