AVX Metallized Polyester Film Capacitors

A KYOCERA GROUP COMPANY

BQ SERIES MULTILAYER METALLIZED POLYESTER FILM

The industry standard upgrade for CK05 type ceramic capacitors

The AVX multilayer film capacitors are a fully automated line of metallized miniature polyester film capacitors, featuring a proprietary multilayer film construction. These capacitors are especially well suited for printed circuits, coupling and decoupling of logic integrated circuits, filtering, timing, bypass, or in space-limited applications.

Features:

- Space-saving multilayer film construction
- Superior electrical characteristics
- Recommended soldering conditions are: 260°C for 5 seconds

Specifications:

- Insulation resistance: > 10GΩ typical (4GΩ min.)
- Dissipation factor: < 0.8% @ 1kHz
- Operating Temperature: -55°C to 100°C derated @ 1.25% per °C from 85°C to 100°C

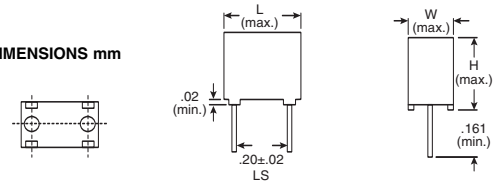
General Description:

- Dielectric: metallized polyester film (polyethylene teraphtalate)
- Stacked-film
- Leads: radial tin-plated wire
- Protection: plastic case (UL94: V-O) / epoxy resin

Performance Characteristics:

- Climatic category:55/100/56 performance class 2
- Tolerances on C_R: ±5%; ±10% (other values on request)
- Nominal voltages: VR_63/100/250/400V
  VR~40/63/160/200V
- Category votage: $V_C = 0.8V_R$ at 100°C

DIMENSIONS mm



Case	L max	H max	e max	ø ± 0.02
01	7.50 (0.295)	6.50 (0.256)	2.50 (0.098)	0.50 (0.020)
02	7.50 (0.295)	8.00 (0.315)	3.20 (0.126)	0.50 (0.020)
05	7.50 (0.295)	12.00 (0.472)	6.00 (0.126)	0.50 (0.020)
07	7.50 (0.295)	8.00 (0.315)	5.00 (0.197)	0.50 (0.020)

LEAD-FREE

RoHS Compliant

For quantities of 10,000 and up, call for quote.

MOUSER STOCK NO.	AVX Part No.	Volt	Value (pF)	Tol. ±	Price Each 1	100	1000	5000
581-BQ014D0102J	BQ014D0102J--	63	1000	5%	.10	.081	.057	.049
581-BQ014D0102K	BQ014D0102K--	63	1000	10%	.09	.075	.053	.045
581-BQ014D0122J	BQ014D0122J--	63	1200	5%	.07	.055	.038	.033
581-BQ014D0122K	BQ014D0122K--	63	1200	10%	.06	.052	.036	.031
581-BQ014D0152J	BQ014D0152J--	63	1500	5%	.07	.054	.038	.032
581-BQ014D0152K	BQ014D0152K--	63	1500	10%	.06	.051	.035	.030
581-BQ014D0182J	BQ014D0182J--	63	1800	5%	.07	.055	.038	.033
581-BQ014D0182K	BQ014D0182K--	63	1800	10%	.06	.052	.036	.031
581-BQ014D0222J	BQ014D0222J--	63	2200	5%	.10	.080	.070	.060
581-BQ014D0222K	BQ014D0222K--	63	2200	10%	.09	.080	.060	.050
581-BQ014D0272J	BQ014D0272J--	63	2700	5%	.07	.056	.039	.033
581-BQ014D0332J	BQ014D0332J--	63	3300	5%	.10	.081	.057	.049
581-BQ014D0332K	BQ014D0332K--	63	3300	10%	.09	.075	.053	.045
581-BQ014D0392J	BQ014D0392J--	63	3900	5%	.07	.055	.038	.033
581-BQ014D0392K	BQ014D0392K--	63	3900	10%	.08	.070	.043	.039
581-BQ014D0472J	BQ014D0472J--	63	4700	5%	.07	.060	.040	.033
581-BQ014D0472K	BQ014D0472K--	63	4700	10%	.09	.075	.053	.045
581-BQ014D0562J	BQ014D0562J--	63	5600	5%	.07	.056	.039	.034
581-BQ014D0562K	BQ014D0562K--	63	5600	10%	.06	.053	.037	.032
581-BQ014D0682J	BQ014D0682J--	63	6800	5%	.07	.058	.041	.035
581-BQ014D0682K	BQ014D0682K--	63	6800	10%	.06	.053	.037	.032
581-BQ014D0822J	BQ014D0822J--	63	8200	5%	.07	.059	.041	.036
581-BQ014D0822K	BQ014D0822K--	63	8200	10%	.07	.056	.039	.033
581-BQ014D0103J	BQ014D0103J--	63	10000	5%	.10	.081	.057	.049
581-BQ014D0103K	BQ014D0103K--	63	10000	10%	.09	.075	.053	.045
581-BQ014D0123J	BQ014D0123J--	63	12000	5%	.06	.053	.037	.032
581-BQ014D0123K	BQ014D0123K--	63	12000	10%	.06	.050	.035	.030
581-BQ014D0153J	BQ014D0153J--	63	15000	5%	.06	.052	.036	.031
581-BQ014D0153K	BQ014D0153K--	63	15000	10%	.06	.049	.034	.029
581-BQ014D0183J	BQ014D0183J--	63	18000	5%	.07	.055	.038	.033
581-BQ014D0183K	BQ014D0183K--	63	18000	10%	.06	.052	.036	.031
581-BQ014D0223J	BQ014D0223J--	63	22000	5%	.10	.080	.060	.049
581-BQ014D0223K	BQ014D0223K--	63	22000	10%	.09	.075	.053	.045
581-BQ014D0273J	BQ014D0273J--	63	27000	5%	.07	.055	.038	.033
581-BQ014D0273K	BQ014D0273K--	63	27000	10%	.06	.051	.036	.031
581-BQ014D0333J	BQ014D0333J--	63	33000	5%	.12	.110	.075	.060
581-BQ014D0333K	BQ014D0333K--	63	33000	10%	.11	.100	.065	.056
581-BQ014D0393J	BQ014D0393J--	63	39000	5%	.07	.055	.039	.033
581-BQ014D0393K	BQ014D0393K--	63	39000	10%	.06	.052	.036	.031
581-BQ014D0473J	BQ014D0473J--	63	47000	5%	.07	.060	.040	.034
581-BQ014D0473K	BQ014D0473K--	63	47000	10%	.06	.050	.040	.032
581-BQ014D0563J	BQ014D0563J--	63	56000	5%	.07	.057	.040	.034
581-BQ014D0563K	BQ014D0563K--	63	56000	10%	.06	.050	.040	.032
581-BQ014D0683J	BQ014D0683J--	63	68000	5%	.12	.110	.075	.060
581-BQ014D0683K	BQ014D0683K--	63	68000	10%	.11	.100	.067	.057
581-BQ014D0823J	BQ014D0823J--	63	82000	5%	.07	.060	.040	.035
581-BQ014D0823K	BQ014D0823K--	63	82000	10%	.06	.050	.040	.032
581-BQ014D0104J	BQ014D0104J--	63	0.1µF	5%	.12	.110	.075	.060
581-BQ014D0104K	BQ014D0104K--	63	0.1µF	10%	.11	.090	.062	.053
581-BQ014D0124J	BQ014D0124J--	63	0.12µF	5%	.08	.070	.047	.040
581-BQ014D0154J	BQ014D0154J--	63	0.15µF	5%	.18	.15	.13	.12
581-BQ014D0154K	BQ014D0154K--	63	0.15µF	10%	.08	.070	.047	.040
581-BQ014D0224J	BQ014D0224J--	63	0.22µF	5%	.17	.150	.100	.086
581-BQ014D0224K	BQ014D0224K--	63	0.22µF	10%	.16	.140	.093	.080
581-BQ024D0274J	BQ024D0274J--	63	0.27µF	5%	.14	.120	.080	.068
581-BQ024D0274K	BQ024D0274K--	63	0.27µF	10%	.13	.110	.075	.064
581-BQ024D0334J	BQ024D0334J--	63	0.33µF	5%	.19	.160	.110	.094
581-BQ024D0334K	BQ024D0334K--	63	0.33µF	10%	.18	.150	.102	.088
581-BQ074D0394J	BQ074D0394J--	63	0.39µF	5%	.19	.160	.108	.093
581-BQ074D0474J	BQ074D0474J--	63	0.47µF	5%	.25	.210	.144	.123
581-BQ074D0474K	BQ074D0474K--	63	0.47µF	10%	.23	.200	.134	.115
581-BQ074D0564J	BQ074D0564J--	63	0.56µF	5%	.21	.180	.123	.105
581-BQ074D0684J	BQ074D0684J--	63	0.68uF	5%	.24	.210	.140	.120
581-BQ074D0684K	BQ074D0684K--	63	0.68uF	10%	.23	.190	.13	.11
581-BQ074D0105J	BQ074D0105J--	63	1.0µF	5%	.44	.370	.258	.221
581-BQ074D0105K	BQ074D0105K--	63	1.0µF	10%	.40	.340	.233	.200
581-BQ054D0155K	BQ054D0155K--	63	1.5µF	10%	.42	.350	.243	.209
581-BQ054D0225K	BQ054D0225K--	63	2.2µF	10%	1.28	1.070	.747	.641

For quantities of 10,000 and up, call for quote.

MOUSER STOCK NO.	AVX Part No.	Volt	Value (pF)	Tol. ±	Price Each 1	100	1000	5000
581-BQ014E0102J	BQ014E0102J--	100	1000	5%	.11	.100	.070	.060
581-BQ014E0102K	BQ014E0102K--	100	1000	10%	.10	.090	.059	.050
581-BQ014E0152J	BQ014E0152J--	100	1500	5%	.06	.060	.038	.032
581-BQ014E0222J	BQ014E0222J--	100	2200	5%	.12	.100	.070	.059
581-BQ014E0222K	BQ014E0222K--	100	2200	10%	.11	.100	.065	.056
581-BQ014E0332J	BQ014E0332J--	100	3300	5%	.12	.100	.069	.059
581-BQ014E0332K	BQ014E0332K--	100	3300	10%	.11	.100	.070	.060
581-BQ014E0392J	BQ014E0392J--	100	3900	5%	.07	.060	.038	.033
581-BQ014E0392K	BQ014E0392K--	100	3900	10%	.06	.050	.036	.031
581-BQ014E0472J	BQ014E0472J--	100	4700	5%	.12	.100	.080	.070
581-BQ014E0472K	BQ014E0472K--	100	4700	10%	.11	.100	.070	.060
581-BQ014E0562J	BQ014E0562J--	100	5600	5%	.07	.060	.039	.034
581-BQ014E0562K	BQ014E0562K--	100	5600	10%	.06	.053	.037	.032
581-BQ014E0682J	BQ014E0682J--	100	6800	5%	.08	.075	.055	.045
581-BQ014E0682K	BQ014E0682K--	100	6800	10%	.07	.060	.038	.033
581-BQ014E0822K	BQ014E0822K--	100	8200	10%	.07	.056	.039	.033
581-BQ014E0103J	BQ014E0103J--	100	10000	5%	.07	.060	.040	.037
581-BQ014E0103K	BQ014E0103K--	100	10000	10%	.10	.084	.059	.050
581-BQ014E0153J	BQ014E0153J--	100	15000	5%	.07	.060	.038	.033
581-BQ014E0153K	BQ014E0153K--	100	15000	10%	.06	.049	.034	.029
581-BQ014E0183J	BQ014E0183J--	100	18000	5%	.07	.055	.038	.033
581-BQ014E0223J	BQ014E0223J--	100	22000	5%	.12	.100	.070	.060
581-BQ014E0223K	BQ014E0223K--	100	22000	10%	.11	.090	.061	.053
581-BQ014E0333J	BQ014E0333J--	100	33000	5%	.13	.120	.080	.070
581-BQ014E0333K	BQ014E0333K--	100	33000	10%	.12	.110	.072	.062
581-BQ014E0393K	BQ014E0393K--	100	39000	10%	.06	.052	.036	.031
581-BQ014E0473J	BQ014E0473J--	100	47000	5%	.12	.100	.080	.070
581-BQ014E0473K	BQ014E0473K--	100	47000	10%	.11	.100	.070	.060
581-BQ014E0563J	BQ014E0563J--	100	56000	5%	.07	.057	.040	.034
581-BQ014E0683J	BQ014E0683J--	100	68000	5%	.12	.100	.070	.059
581-BQ014E0683K	BQ014E0683K--	100	68000	10%	.11	.100	.070	.060
581-BQ014E0124J	BQ014E0124J--	100	0.12µF	5%	.08	.070	.047	.040
581-BQ014E0154J	BQ014E0154J--	100	0.15µF	5%	.09	.071	.050	.043
581-BQ014E0154K	BQ014E0154K--	100	0.15µF	10%	.08	.067	.047	.040
581-BQ014E0104J	BQ014E0104J--	100	0.1µF	5%	.11	.090	.063	.054
581-BQ014E0104K	BQ014E0104K--	100	0.1µF	10%	.10	.090	.059	.050
581-BQ074E0224J	BQ074E0224J--	100	0.22µF	5%	.26	.220	.150	.130
581-BQ074E0224K	BQ074E0224K--	100	0.22µF	10%	.25	.210	.140	.126
581-BQ074E0274J	BQ074E0274J--	100	0.27µF	5%	.17	.150	.100	.086
581-BQ074E0334J	BQ074E0334J--	100	0.33µF	5%	.30	.260	.18	.16
581-BQ074E0334K	BQ074E0334K--	100	0.33µF	10%	.31	.260	.18	.16
581-BQ074E0394J	BQ074E0394J--	100	0.39µF	5%	.19	.160	.11	.093
581-BQ074E0474J	BQ074E0474J--	100	0.47µF	5%	.35	.300	.21	.18
581-BQ074E0474K	BQ074E0474K--	100	0.47µF	10%	.30	.260	.18	.15
581-BQ014G0102K	BQ014G0102K--	250	1000	10%	.07	.060	.040	.034
581-BQ014G0682K	BQ014G0682K--	250	6800	10%	.07	.061	.043	.036
581-BQ014G0103J	BQ014G0103J--	250	10000	5%	.09	.080	.050	.041
581-BQ014G0103K	BQ014G0103K--	250	10000	10%	.08	.065	.044	.038
581-BQ014G0123J	BQ014G0123J--	250	12000	5%	.08	.065	.045	.039
581-BQ014G0153K	BQ014G0153K--	250	15000	10%	.07	.061	.043	.036
581-BQ024G0333K	BQ024G0333K--	250	33000	10%	.10	.082	.057	.049
581-BQ024G0473K	BQ024G0473K--	250	47000	10%	.12	.100	.070	.062
581-BQ074G0683K	BQ074G0683K--	250	68000	10%	.15	.130	.089	.077
581-BQ074G0104K	BQ074G0104K--	250	0.1µF	10%	.18	.15	.11	.091
581-BQ014I0102K	BQ014I0102K--	400	1000	10%	.07	.057	.040	.034
581-BQ014I0222K	BQ014I0222K--	400	2200	10%	.07	.058	.040	.035
581-BQ014I0332K	BQ014I0332K--	400	3300	10%	.07	.058	.041	.035
581-BQ014I0103K	BQ014I0103K--	400	10000	10%	.08	.064	.044	.038
581-BQ024I0153J	BQ024I0153J--	400	15000	5%	.11	.093	.065	.056

Metallized Polyester Film Capacitors Kit

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	AVX Part No.	WVDC	Kit Contains 245 Pieces	Price Each
581-BQKIT	BQ004-0359	63V	20 each: 1000pF, .1µF, .22µF, and .33µF. 10 each: .47µF and 1.0µF	49.10
		100V	20 each: 4700pF and .1µF 5 each: .47µF	
		250V	20 each: .033µF, .047µF 10 each: .1µF	
		400V	20 each: .01µF 10 each: .047µF	

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