

General Description



APPLICATIONS

General purpose function in low voltage applications where miniaturization and SMD is required. Typical applications would be:

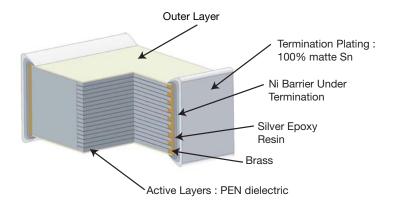
- · Automotive (Airbag, Fuel injection calculator...)
- Telecom (Public switching systems, modems, telephone set, cordless, mobile)
- Industrial (SMPS, Power convertor module...)

GENERAL DESCRIPTION

Film chip capacitor using a naked and stacked construction with metallized PEN (polyethylene naphtalate).

ADVANTAGES

- Use of high temperature dielectric films make these capacitors suitable for IR or vapor phase reflow processes. This chip is built without specific encapsulation.
- The intrinsic elasticity of the dielectric film allows an excellent compatibility of the capacitor with all types of material for printed circuit boards.
- The self-healing property of film technology results to a safety open failure mode and better overall reliability.
- Excellent thermal shock resistance.
- Low dissipation factor ESR & ESL.
- No piezoelectric effect.
- Available in tape and reel suitable for automatic placement.
- Non-polar construction.



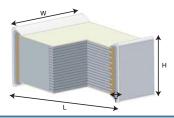
PERFORMANCE CHARACTERISTICS

Climatic Category	55/125/56
Capacitance Range	1nF to 4.7μF
Tolerance on C _R	±5%, ±10%
Nominal Voltages	25Vdc to 630Vdc
Test Voltage	1.4Vr 2 sec. at 25°C
Soldering methods	IR or vapor phase reflow (not suitable for wave soldering)
Tangent of Loss Angle at 1kHz (DF)	< 100 x 10 ⁻⁴
	for C ≤ 0.33µF IR > 1000 MΩ at 20°C for 1 min. charge at 10Vdc
Insulation resistance minimum : IR	for VR < 100Vdc and 100Vdc for VR ≥ 100Vdc
insulation resistance minimum . IK	for C > 0.33µF IR C > 400 sec. at 20°C for 1 min. charge at 10Vdc
	for VR < 100Vdc and 100Vdc for VR ≥ 100Vdc
Temperature range	-55°C to 125°C with voltage derating of 1.25%/°C between 105°C and 125°C
A.C. applications	For high frequency A.C. application please check with AVX



Capacitance Values & Nominal Voltages

CAPACITANCE VALUES (CR) AND NOMINAL VOLTAGES (VR)



millimeters (inches)

						,	VOLTAGE	Vdc: 25V	Vac: 16V	1				
Capacitance Range (CR)	Ordering Code		(pag	ances je 6)			e Dimens			el Dimens		Packagi	ing Unit	Reel Pkg Code
		L	W	H max	Т	W	P1	K0	Α	W1	W2 max	Bulk	Reel	Code
0.001µF	CB017C0102+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0012	CB017C0122+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0015	CB017C0152+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0018	CB017C0182+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0022	CB017C0222+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0027	CB017C0272+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0033	CB017C0332+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0047	CB017C0472+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0056	CB017C0562+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0068	CB017C0682+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0082	CB017C0822+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.010µF	CB017C0103+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.012	CB017C0123+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.015	CB017C0153+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.018	CB017C0183+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.022	CB017C0223+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.027	CB027C0273+	3.30 (0.130)	2.50 (0.098)	1.80 (0.071)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.90 (0.075)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2500	ВА
0.033	CB027C0333+	3.30 (0.130)	2.50 (0.098)	1.80 (0.071)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.90 (0.075)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2500	ВА
0.047	CB027C0473+	3.30 (0.130)	2.50 (0.098)	1.80 (0.071)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.90 (0.075)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2500	ВА
0.056	CB027C0563+	3.30 (0.130)	2.50 (0.098)	1.80 (0.071)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.90 (0.075)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2500	ВА
0.068	CB027C0683+	3.30 (0.130)	2.50 (0.098)	1.80 (0.071)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.90 (0.075)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2500	ВА
0.082	CB027C0823+	3.30 (0.130)	2.50 (0.098)	2.20 (0.087)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	2.33 (0.092)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2000	ВА
0.100µF	CB027C0104+	3.30 (0.130)	2.50 (0.098)	2.30 (0.091)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	2.33 (0.092)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2000	ВА

For other Values: upon request

Replace the + by the tolerance code: J = 5% or K = 10%

Replace the – by the packaging suffix: – = bulk

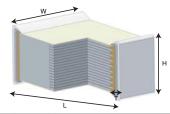
BA = tape & reel





Capacitance Values & Nominal Voltages

CAPACITANCE VALUES (CR) AND NOMINAL VOLTAGES (VR)



millimeters (inches)

						,	VOLTAGE	Vdc: 50V	Vac: 40V					
Capacitance Range (CR)	Ordering Code			nensions ances le 6)		Тар	e Dimens	ions	Ree	el Dimens	ions	Packagi	ing Unit	Reel Pkg
, ,		L	W	H max	Т	W	P1	K0	Α	W1	W2 max	Bulk	Reel	Code
0.001µF	CB017D0102+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0012	CB017D0122+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0015	CB017D0152+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0018	CB017D0182+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0022	CB017D0222+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0027	CB017D0272+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0033	CB017D0332+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0047	CB017D0472+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0056	CB017D0562+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0068	CB017D0682+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0082	CB017D0822+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.010µF	CB017D0103+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.012	CB017D0123+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.015	CB017D0153+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.018	CB017D0183+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.022	CB017D0223+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.027	CB027D0273+	3.30 (0.130)	2.50 (0.098)	1.80 (0.071)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.90 (0.075)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2500	ВА
0.033	CB027D0333+	3.30 (0.130)	2.50 (0.098)	1.80 (0.071)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.90 (0.075)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2500	ВА
0.047	CB027D0473+	3.30 (0.130)	2.50 (0.098)	1.80 (0.071)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.90 (0.075)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2500	ВА
0.056	CB027D0563+	3.30 (0.130)	2.50 (0.098)	1.80 (0.071)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.90 (0.075)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2500	ВА
0.068	CB027D0683+	3.30 (0.130)	2.50 (0.098)	1.80 (0.071)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.90 (0.075)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2500	ВА
0.082	CB027D0823+	3.30 (0.130)	2.50 (0.098)	2.20 (0.087)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	2.33 (0.092)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2000	ВА
0.100µF	CB027D0104+	3.30 (0.130)	2.50 (0.098)	2.30 (0.091)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	2.33 (0.092)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2000	ВА

For other Values: upon request

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Replace the – by the packaging suffix: - = bulk

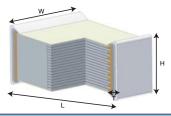
BA = tape & reel





Capacitance Values & Nominal Voltages

CAPACITANCE VALUES (CR) AND NOMINAL VOLTAGES (VR)



millimeters (inches)

						,	VOLTAGE	Vdc: 63V	Vac: 40\	1				
Capacitance Range (CR)	Ordering Code		(pag	ances			e Dimens	ions		el Dimens	ions	Packag	ing Unit	Reel Pkg Code
		L	W	H max	Т	W	P1	K0	Α	W1	W2 max	Bulk	Reel	Code
0.001uF	CB037D0102+	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.001μΓ	CB037D0102+-	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0012	CB037D0122+	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0012	GB037B01221	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0015	CB037D0152+	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0013	GB037 D0 1321	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0018	CB037D0182+	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.6 (0.024)	12.0 (0.472)	8.0 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0010	00037001021	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0022	CB037D0222+	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0022	GB037 B02221 =	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0027	CB037D0272+	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.6 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0027	GB037B02721	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0033	CB037D0332+	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0033	CB037D0332+	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0047	CB037D0472+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0047	CB037D0472+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0056	CB037D0562+	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0030	CB037D0302+	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0068	CB037D0682+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0008	GBU37DU082+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0082	CB037D0822+	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.6 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0082		4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.010µF	CB037D0103+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА

For other Values: upon request

Replace the + by the tolerance code: J = 5% or K = 10%

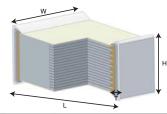
Replace the – by the packaging suffix: – = bulk





Capacitance Values & Nominal Voltages

CAPACITANCE VALUES (CR) AND NOMINAL VOLTAGES (VR)



						,	VOLTAGE	Vdc: 63V	Vac: 40V					
Capacitance Range (CR)	Ordering Code		Chip Dim *Toler (pag	ances		Тар	e Dimens	ions	Ree	el Dimens	ions	Packag	ing Unit	Reel Pkg
		L	W	H max	Т	W	P1	K0	Α	W1	W2 max	Bulk	Reel	Code
0.010µF	CB037D0103+	4.70 (0.185)	3.20 (.0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.0 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.012	CB037D0123+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
	00037001231	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.015	CB037D0153+	4.70 (0.185)	3.20 (0.126)	2.40 (0.095)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	900	ВА
	00007001001	4.70 (0.185)	3.20 (0.126)	2.40 (0.095)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3600	ВС
0.018	CB037D0183+	4.70 (0.185)	3.20 (0.126)	2.50 (0.099)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	900	ВА
	05037501031	4.70 (0.185)	3.20 (0.126)	2.50 (0.099)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3600	ВС
0.022	CB037D0223+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
	GB037 D02231 =	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.027	CB037D0273+	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
	CB037D0273+	4.70 (0.185)	3.20 (0.126)	1.90 (0.075)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.033	CB037D0333+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
	05007500001	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.047	CB037D0473+	4.70 (0.185)	3.20 (0.126)	2.70 (0.107)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	700	ВА
	CB037D0473+	4.70 (0.185)	3.20 (0.126)	2.70 (0.107)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3000	ВС
0.056	CB037D0563+	4.70 (0.185)	3.20 (0.126)	2.30 (0.091)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	900	ВА
	05007500001	4.70 (0.185)	3.20 (0.126)	2.30 (0.091)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3600	ВС
0.068	CB037D0683+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
	05007500001	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.082	CB037D0823+	4.70 (0.185)	3.20 (0.126)	2.50 (0.099)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	900	ВА
	05007 D0020 F ==	4.70 (0.185)	3.20 (0.126)	2.50 (0.099)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3600	ВС
0.100µF	CB037D0104+	4.70 (0.185)	3.20 (0.126)	2.80 (0.111)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	700	ВА
	CDU3/DU1U4+	4.70 (0.185)	3.20 (0.126)	2.80 (0.111)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3000	ВС

For other Values: upon request

Replace the + by the tolerance code: J = 5% or K = 10%

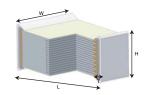
Replace the – by the packaging suffix: -- = bulk





Capacitance Values & Nominal Voltages

CAPACITANCE VALUES (CR) AND NOMINAL VOLTAGES (VR)



						,	VOLTAGE	Vdc: 63V	Vac: 40V					
Capacitance Range (CR)	Ordering Code		Chip Dim *Toler (pag	ances		Тар	e Dimens	ions	Ree	l Dimens	ions	Packag	ing Unit	Reel Pkg
		L	W	H max	Т	W	P1	K0	Α	W1	W2 max	Bulk	Reel	Code
0.120	CB037D0124+	4.70 (0.185)	3.20 (0.126)	2.30 (0.091)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	900	ВА
	00007001241	4.70 (0.185)	3.20 (0.126)	2.30 (0.091)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3600	ВС
0.150	CB037D0154+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
	00007001041	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.180	0000700404	4.70 (0.185)	3.20 (0.126)	2.40 (0.095)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	900	ВА
	CB037D0184+	4.70 (0.185)	3.20 (0.126)	2.40 (0.095)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3600	ВС
0.220	CB037D0224+	4.70 (0.185)	3.20 (0.126)	3.00 (0.118)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	700	ВА
	CD037D02241 =	4.70 (0.185)	3.20 (0.126)	3.00 (0.118)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3000	ВС
0.330	CB047D0334+	5.80 (0.228)	5.00 (0.195)	4.00 (0.158)	0.80 (0.031)	16.0 (0.629)	8.00 (0.315)	4.10 (0.162)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	2300	ВС
0.470	CB047D0474+	5.80 (0.228)	5.00 (0.195)	4.00 (0.158)	0.80 (0.031)	12.0 (0.472)	8.00 (0.315)	4.10 (0.162)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	2300	ВС
0.560	CB047D0564+	5.80 (0.228)	5.00 (0.195)	2.50 (0.099)	0.80 (0.031)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3000	ВС
0.680	CB047D0684+	5.80 (0.228)	5.00 (0.195)	3.90 (0.154)	0.80 (0.031)	12.0 (0.472)	8.00 (0.315)	4.10 (0.162)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	2300	ВС
0.82*	CB057D0824+	7.30 (0.287)	6.10 (0.240)	4.40 (0.173)	0.80 (0.031)	16.0 (0.629)	12.0 (0.472)	5.23 (0.206)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1000	1100	ВС
1µF*	CB057D0105+	7.30 (0.287)	6.10 (0.240)	4.70 (0.185)	0.80 (0.031)	16.0 (0.629)	12.0 (0.472)	4.80 (0.189)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1000	1800	ВС
1.5*	CB057D0155+	7.30 (0.287)	6.10 (0.240)	4.70 (0.185)	0.80 (0.031)	16.0 (0.629)	12.0 (0.472)	4.80 (0.189)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1000	1800	ВС
2.2	CB167D0225+	10.5 (0.413)	7.60 (0.299)	6.10 (0.240)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	6.19 (0.244)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	500	900	ВС
2.7	CB177D0275+	12.8 (0.503)	10.2 (0.402)	6.70 (0.264)	0.80 (0.032)	24.0 (0.944)	16.0 (0.629)	7.00 (0.274)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	600	ВС
3.3	CB187D0335+	15.3 (0.601)	13.7 (0.539)	5.30 (0.209)	0.80 (0.032)	24.0 (0.944)	24.0 (0.944)	6.30 (0.248)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	400	ВС
4.7	CB187D0475+	15.3 (0.601)	13.7 (0.539)	7.20 (0.283)	0.80 (0.032)	24.0 (0.944)	24.0 (0.944)	7.60 (0.299)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	300	ВС
								Vdc: 100\						
0.001µF	CB017E0102+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0012	CB017E0122+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0015	CB017E0152+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0018	CB017E0182+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА

For other Values: upon request

Replace the + by the tolerance code: J = 5% or K = 10%

Replace the – by the packaging suffix: -- = bulk

BA or BC = tape & reel

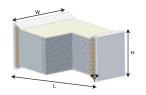
*Special length: 7.3 +0.7/-0.3 (0.287 +0.026/-0.012)





Capacitance Values & Nominal Voltages

CAPACITANCE VALUES (CR) AND NOMINAL VOLTAGES (VR)



millimeters (inches)

						V	OLTAGE	Vdc: 100V	Vac: 63\	1				
Capacitance Range (CR)	Ordering Code		*Toler	nensions ances je 6)		Тар	e Dimens	ions	Ree	el Dimens	ions	Packag	ing Unit	Reel Pkg
		L	W	H max	Т	W	P1	K0	Α	W1	W2 max	Bulk	Reel	Code
0.0022	CB017E0222+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0027	CB017E0272+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0033	CB017E0332+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0047	CB017E0472+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0056	CB017E0562+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0068	CB017E0682+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.0082	CB017E0822+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.010µF	CB017E0103+	3.30 (0.130)	1.60 (0.063)	1.15 (0.045)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.20 (0.047)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	3500	ВА
0.012	CB027E0123+	3.30 (0.130)	2.50 (0.098)	1.80 (0.071)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.90 (0.075)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2500	ВА
0.015	CB027E0153+	3.30 (0.130)	2.50 (0.098)	1.80 (0.071)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.90 (0.075)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2500	ВА
0.018	CB027E0183+	3.30 (0.130)	2.50 (0.098)	1.80 (0.071)	0.50 (0.020)	8.0 (0.315)	4.00 (0.158)	1.90 (0.075)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2500	ВА
0.022	CB027E0223+	3.30 (0.130)	2.50 (0.098)	1.80 (0.071)	0.50 (0.020)	8.00 (0.315)	4.00 (0.158)	1.90 (0.075)	180 (7.087)	8.40 (0.331)	14.4 (0.567)	2000	2500	ВА
0.027	CD027E02721	4.70 (0.185)	3.20 (0.126)	2.20 (0.087)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.1024)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	900	ВА
0.027	CB037E0273+	4.70 (0.185)	3.20 (0.126)	2.20 (0.087)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.1024)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3600	ВС
0.033	CB037E0333+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.033	CB037E0333+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.047	CB037E0473+	4.70 (0.185)	3.20 (0.126)	2.60 (0.102)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	700	ВА
0.047	CB037E0473+	4.70 (0.185)	3.20 (0.126)	2.60 (0.102)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3000	ВС
0.056	CB037E0563+	4.70 (0.185)	3.20 (0.126)	2.50 (0.099)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	900	ВА
0.030	05037E03037	4.70 (0.185)	3.20 (0.126)	2.50 (0.099)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3600	ВС
0.068	CB037E0683+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.008	CDU3/EU083+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.082	CB037E0823+	4.70 (0.185)	3.20 (0.126)	2.50 (0.099)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	900	ВА

For other Values: upon request

Replace the + by the tolerance code: J = 5% or K = 10%

Replace the – by the packaging suffix: -- = bulk





Capacitance Values & Nominal Voltages

CAPACITANCE VALUES (CR) AND NOMINAL VOLTAGES (VR)



millimeters (inches)

						\	OLTAGE	Vdc: 100\	/ Vac: 63\	V				
Capacitance Range (CR)	Ordering Code		(pag	ances je 6)		•	e Dimens			el Dimens		Packag	ing Unit	Reel Pkg Code
		L	W	H max	Т	W	P1	K0	Α	W1	W2 max	Bulk	Reel	Code
0.082	CB037E0823+	4.70 (0.185)	3.20 (0.126)	2.50 (0.099)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3600	ВС
0.100µF	CB037E0104+	4.70 (0.185)	3.20 (0.126)	3.00 (0.118)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	700	BA
σ. τσομι	05007201041	4.70 (0.185)	3.20 (0.126)	3.00 (0.118)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3000	ВС
0.120	CB047E0124+	5.80 (0.228)	5.00 (0.195)	4.00 (0.158)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	4.10 (0.162)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	2300	ВС
0.150	CB047E0154+	5.80 (0.228)	5.00 (0.195)	3.30 (0.130)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	3.45 (0.136)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	2800	ВС
0.180	CB047E0184+	5.80 (0.228)	5.00 (0.195)	3.00 (0.118)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3000	ВС
0.220	CB047E0224+	5.80 (0.228)	5.00 (0.195)	4.00 (0.158)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	4.10 (0.162)		12.4 (0.488)	18.4 (0.724)	1500	2300	ВС
0.330	CB047E0334+	5.80 (0.228)	5.00 (0.195)	4.00 (0.158)	0.80 (0.032)	16.0 (0.629)	8.00 (0.315)	4.10 (0.162)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1500	2300	ВС
0.47*	CB057E0474+	7.30 (0.287)	6.10 (0.240)	4.50 (0.177)	0.80 (0.032)	16.0 (0.629)	12.0 (0.472)	4.80 (0.189)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1000	1800	ВС
0.56*	CB057E0564+	7.30 (0.287)	6.10 (0.240)	4.00 (0.158)	0.80 (0.032)	16.0 (0.629)	12.0 (0.472)	4.10 (0.162)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1000	2300	ВС
0.68*	CB057E0684+	7.30 (0.287)	6.10 (0.240)	4.50 (0.177)	0.80 (0.032)	16.0 (0.629)	12.0 (0.472)	4.80 (0.189)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1000	1800	ВС
0.82	CB167E0824+	10.5	7.6 (0.299)	5.80 (0.229)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	6.19 (0.244)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	500	900	ВС
1	CB167E0105+	10.5 (0.413)	7.60 (0.299)	6.00 (0.237)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	6.19 (0.244)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	500	900	ВС
1.5	CB177E0155+	12.8 (0.503)	10.2 (0.402)	5.50 (0.217)	0.80 (0.032)	24.0 (0.944)	16.0 (0.629)	5.70 (0.224)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	700	ВС
2.2	CB177E0225+	12.8 (0.503)	10.2 (0.402)	6.90 (0.272)	0.80 (0.032)	24.0 (0.944)	16.0 (0.629)	7.00 (0.274)	330	24.4 (0.961)	30.4 (1.196)	300	600	ВС
3.3	CB187E0335+	15.3 (0.601)	13.7 (0.539)	7.10 (0.280)	0.80 (0.032)	24.0 (0.944)	24.0 (0.944)	7.60 (0.299)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	300	ВС
		,				V	, ,	/dc: 250V	Vac: 160	_ , _ ,	,			
0.001	0000700100	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.001µF	CB037G0102+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
		4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0012	CB037G0122+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
		4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	BA
0.0015	CB037G0152+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0018	CB037G0182+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0	8.00 (0.315)	2.06 (0.081)	180	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА

For other Values: upon request

Replace the + by the tolerance code: J = 5% or K = 10%

Replace the – by the packaging suffix: – = bulk

BA or BC = tape & reel

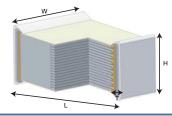
*Special length: 7.3 +0.7/-0.3 (0.287 +0.026/-0.012)





Capacitance Values & Nominal Voltages

CAPACITANCE VALUES (CR) AND NOMINAL VOLTAGES (VR)



millimeters (inches)

						٧	OLTAGE \	/dc: 250V	Vac: 160	V				
Capacitance Range (CR)	Ordering Code		Chip Dim *Toler (pag	ances je 6)			e Dimens			el Dimens		Packagi	ing Unit	Reel Pkg Code
		L	W	H max	T	W	P1	K0	Α	W1	W2 max	Bulk	Reel	Code
0.0018	CB037G0182+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0022	CB037G0222+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0022	CB037G02Z2+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0027	CB037G0272+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0027	CB03/G02/2+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0033	CB037G0332+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0033	CB037G0332+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0047	CB037G0472+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0047	CB03/G04/2+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0056	CB037G0562+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0056	CB037G0502+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0068	CB037G0682+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0008	CB037G0062+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	вс
0.0000	CB037G0822+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0082	CB037G0822+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.010µF	CB037G0103+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
υ.υτυμε	CB037G0103+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.012	CB037G0123+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.012	CB03/G0123+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.015	CB037G0153+	4.70 (0.185)	3.20 (0.126)	2.40 (0.094)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	900	ВА
0.015	CDU3/GU133+	4.70 (0.185)	3.20 (0.126)	2.40 (0.094)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3600	ВС
0.018	CD027C0192	4.70 (0.185)	3.20 (0.126)	2.50 (0.099)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	900	ВА
0.018	CB037G0183+	4.70 (0.185)	3.20 (0.126)	2.50 (0.099)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.60 (0.102)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3600	ВС

For other Values: upon request

Replace the + by the tolerance code: J = 5% or K = 10%

Replace the – by the packaging suffix: -- = bulk





Capacitance Values & Nominal Voltages

CAPACITANCE VALUES (CR) AND NOMINAL VOLTAGES (VR)



millimeters (inches)

						V	OLTAGE \	/dc: 250V	Vac: 160	V				
Capacitance Range (CR)	Ordering Code		Chip Dim *Toler (pag	ances		Тар	e Dimens	ions	Rec	el Dimens	ions	Packagi	ing Unit	Reel Pkg
` ′		L	W	H max	Т	W	P1	K0	Α	W1	W2 max	Bulk	Reel	Code
0.022	CB037G0223+	4.70 (0.185)	3.20 (0.126)	2.90 (0.114)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	180 (7.087)	12.4 (0.488)	18.4 (0.724)	1500	700	ВА
		4.70 (0.185)	3.20 (0.126)	2.90 (0.114)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3000	ВС
0.027	CB047G0273+	5.80 (0.228)	5.00 (0.195)	1.80 (0.071)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	2.43 (0.096)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3500	ВС
0.033	CB047G0333+	5.80 (0.228)	5.00 (0.195)	2.20 (0.087)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	2.43 (0.096)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3500	ВС
0.047	CB047G0473+	5.80 (0.228)	5.00 (0.195)	2.90 (0.114)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3000	ВС
0.056	CB047G0563+	5.80 (0.228)	5.00 (0.195)	2.90 (0.114)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3000	ВС
0.068	CB047G0683+	5.80 (0.228)	5.00 (0.195)	4.00 (0.158)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	4.10 (0.161)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	2800	ВС
0.082	CB047G0823+	5.80 (0.228)	5.00 (0.195)	4.50 (0.177)	0.80 (0.032)	16.0 (0.629)	8.00 (0.315)	4.60 (0.181)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1500	1900	ВС
0.100µF	CB047G0104+	5.80 (0.228)	5.00 (0.195)	4.50 (0.177)	0.80 (0.032)	16.0 (0.629)	8.00 (0.315)	4.60 (0.181)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1500	1900	ВС
0.120	CB057G0124+	7.20 (0.283)	6.10 (0.240)	3.90 (0.153)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	4.80 (0.189)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	1000	1800	ВС
0.150	CB057G0154+	7.20 (0.283)	6.10 (0.240)	4.70 (0.185)	0.80 (0.032)	16.0 (0.629)	12.0 (0.472)	4.80 (0.189)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1000	1800	ВС
0.180	CB057G0184+	7.20 (0.283)	6.10 (0.240)	5.00 (0.197)	0.80 (0.032)	16.0 (0.629)	12.0 (0.472)	5.23 (0.206)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1000	1100	ВС
0.22μF	CB057G0224+	7.20 (0.283)	6.10 (0.240)	5.70 (0.225)	0.80 (0.032)	16.0 (0.629)	12.0 (0.472)	5.90 (0.232)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1000	900	ВС
0.330	CB167G0334+	10.5 (0.413)	7.60 (0.299)	6.10 (0.240)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	6.19 (0.244)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	500	900	ВС
0.470	CB177G0474+	12.8 (0.503)	10.2 (0.402)	5.50 (0.205)	0.80 (0.032)	24.0 (0.944)	16.0 (0.629)	5.70 (0.224)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	700	ВС
0.560	CB177G0564+	12.8 (0.503)	10.2 (0.402)	6.00 (0.236)	0.80 (0.032)	24.0 (0.944)	16.0 (0.629)	5.70 (0.224)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	700	ВС
0.680	CB187G0684+	15.3 (0.601)	13.7 (0.539)	4.30 (0.169)	0.80 (0.032)	24.0 (0.944)	24.0 (0.944)	4.50 (0.177)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	600	ВС
1µF	CB187G0105+	15.3 (0.601)	13.7 (0.539)	6.40 (0.252)	0.80 (0.032)	24.0 (0.944)	24.0 (0.944)	6.30 (0.248)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	400	ВС
				· ·	Ì		OLTAGE \	/dc: 400V			, i			
0.001µF	CB037I0102+		3.20 (0.126)	, ,	,	, ,	` ′	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
σ.σστμι	35007101021	4.70 (0.185)	,	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0012	CB037I0122+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0012	OD03/101227	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0015	CB037I0152+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА

For other Values: upon request

Replace the + by the tolerance code: J = 5% or K = 10%

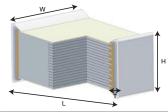
Replace the – by the packaging suffix: – = bulk





Capacitance Values & Nominal Voltages

CAPACITANCE VALUES (CR) AND NOMINAL VOLTAGES (VR)



millimeters (inches)

						V	OLTAGE \	/dc: 400V	Vac: 200	V				
Capacitance Range (CR)	Ordering Code			nensions ances je 6)		Тар	e Dimens	ions	Ree	el Dimens	ions	Packag	ing Unit	Reel Pkg Code
		L	W	H max	Т	W	P1	K0	Α	W1	W2 max	Bulk	Reel	Code
0.0015	CB037I0152+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0018	CB037I0182+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
	CB03710102+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0022	CB037I0222+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
	CB03710222+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0027	CB037I0272+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
	00007102721	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0033	CB037I0332+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
	CD03710332+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0047	CB037I0472+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
	CD03/104/2+ -	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0056	CB037I0562+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
	GD037103021	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0068	CB037I0682+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
	GD037100021	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0082	CB037I0822+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
	0007100221	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.010µF	CB047I0103+	5.80 (0.228)	5.00 (0.195)	1.90 (0.075)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	2.10 (0.083)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4400	ВС
0.012	CB047I0123+	5.80 (0.228)	5.00 (0.195)	2.20 (0.087)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	2.43 (0.096)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3500	ВС
0.015	CB047I0153+	5.80 (0.228)	5.00 (0.224)	2.00 (0.079)	0.80 (0.087)	12.0 (0.472)	8.00 (0.315)	2.43 (0.096)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4400	ВС
0.018	CB047I0183+	5.80 (0.228)	5.00 (0.195)	2.30 (0.091)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	2.43 (0.096)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3500	ВС
0.022	CB047I0223+	5.80 (0.228)	5.00 (0.195)	2.80 (0.110)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3000	ВС
0.027	CB047I0273+	5.80 (0.228)	5.00 (0.195)	3.30 (0.130)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	3.45 (0.136)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	2800	ВС

For other Values: upon request

Replace the + by the tolerance code: J = 5% or K = 10%

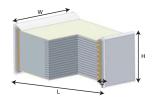
Replace the – by the packaging suffix: -- = bulk





Capacitance Values & Nominal Voltages

CAPACITANCE VALUES (CR) AND NOMINAL VOLTAGES (VR)



millimeters (inches)

						V	OLTAGE V	/dc: 400V	Vac: 200	V				
Capacitance Range (CR)	Ordering Code		Chip Dim *Toler (pag	ances		Тар	e Dimens	ions	Ree	el Dimens	ions	Packag	ing Unit	Reel Pkg Code
		L	W	H max	Т	W	P1	K0	Α	W1	W2 max	Bulk	Reel	Code
0.033	CB047I0333+	5.80 (0.228)	5.00 (0.195)	3.90 (0.154)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	4.10 (0.162)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	2300	ВС
0.047	CB057I0473+	7.20 (0.283)	6.10 (0.24)	3.20 (0.126)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	3.80 (0.149)	330 (12.99)	24.4 (0.96)	30.4 (1.196)	1000	2250	ВС
0.056	CB057I0563+	7.20 (0.283)	6.10 (0.24)	3.70 (0.146)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	3.80 (0.149)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1000	2250	ВС
0.068	CB057I0683+	7.20 (0.283)	6.10 (0.24)	4.40 (0.173)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	4.80 (0.189)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1000	1800	ВС
0.082	CB167I0823+	10.5 (0.413)	7.60 (0.299)	4.50 (0.177)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	4.90 (0.193)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	500	1100	ВС
0.100µF	CB167I0104+	10.5 (0.413)	7.60 (0.299)	4.00 (0.158)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	4.90 (0.193)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	500	1100	ВС
0.120	CB167I0124+	10.5 (0.413)	7.60 (0.299)	5.00 (0.196)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	6.19 (0.244)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	500	900	ВС
0.150	CB167I0154+	10.5 (0.413)	7.60 (0.299)	6.00 (0.235)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	6.19 (0.244)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	500	900	ВС
0.180	CB177I0184+	12.8 (0.503)	10.2 (0.402)	5.10 (0.200)	0.80 (0.032)	24.0 (0.944)	16.0 (0.629)	5.70 (0.225)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	700	ВС
0.220	CB177I0224+	12.8 (0.503)	10.2 (0.402)	5.00 (0.196)	0.80 (0.032)	24.0 (0.944)	16.0 (0.629)	5.70 (0.225)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	700	ВС
0.270	CB177I0274+	12.8 (0.503)	10.2 (0.402)	6.50 (0.255)	0.80 (0.032)	24.0 (0.944)	16.0 (0.629)	7.00 (0.275)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	600	ВС
0.330	CB187I0334+	15.3 (0.601)	13.7 (0.539)	4.20 (0.165)	0.80 (0.032)	24.0 (0.944)	24.0 (0.944)	4.50 (0.178)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	600	ВС
0.390	CB187I0394+	15.3 (0.601)	13.7 (0.539)	5.80 (0.228)	0.80 (0.032)	24.0 (0.944)	24.0 (0.944)	6.30 (0.248)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	400	ВС
0.470	CB187I0474+	15.3 (0.601)	13.7 (0.539)	6.50 (0.255)	0.80 (0.0315)	24.0 (0.944)	24.0 (0.944)	7.60 (0.299)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	300	ВС
		ı			1			/dc: 630V	r		ı	r	ı	
0.001µF	CB037K0102+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.00 τμι	030071101021	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0012	CB037K0122+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	BA
0.0012	05007101221	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0015	CB037K0152+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0010	05007101021	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0018	CB037K0182+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	· ·	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	BA
0.0010	05007101021	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)		18.4 (0.724)	1500	4500	ВС
0.0022	CB037K0222+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	BA

For other Values: upon request

Replace the + by the tolerance code: J = 5% or K = 10%

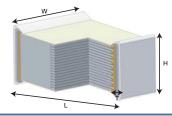
Replace the – by the packaging suffix: -- = bulk





Capacitance Values & Nominal Voltages

CAPACITANCE VALUES (CR) AND NOMINAL VOLTAGES (VR)



millimeters (inches)

		VOLTAGE Vdc: 630V Vac: 250V												
Capacitance Range (CR) Ordering Code		Chip Dimensions *Tolerances (page 6)			Тар	e Dimens	ions	Reel Dimensions			Packaging Unit		Reel Pkg Code	
		L	W	H max	Т	W	P1	K0	Α	W1	W2 max	Bulk	Reel	Code
0.0022	CB037K0222+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0027	CB037K0272+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0027	000071102721	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0033	CB037K0332+	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1200	ВА
0.0000	000071000021	4.70 (0.185)	3.20 (0.126)	2.00 (0.079)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0047	CB037K0472+	4.70 (0.185)	3.20 (0.126)	2.50 (0.099)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	1201	ВА
0.0047	CB037R04721 =	4.70 (0.185)	3.20 (0.126)	2.50 (0.099)	0.60 (0.024)	12.0 (0.472)	8.00 (0.315)	2.06 (0.081)	180 (7.09)	12.4 (0.488)	18.4 (0.724)	1500	4500	ВС
0.0056	CB047K0562+	5.80 (0.228)	5.00 (0.195)	2.00 (0.079)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	2.10 (0.083)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4400	ВС
0.0068	CB047K0682+	5.80 (0.228)	5.00 (0.195)	2.00 (0.079)	0.80 (0.032)	12.0 (0.472)	8.0 (0.315)	2.10 (0.083)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4400	ВС
0.0082	CB047K0822+	5.80 (0.228)	5.00 (0.195)	2.20 (0.086)	0.80 (0.032)	12.0 (0.472)	8.0 (0.315)	2.43 (0.096)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3500	ВС
0.010µF	CB047K0103+	5.80 (0.228)	5.00 (0.195)	2.00 (0.079)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	2.10 (0.083)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	4400	ВС
0.012	CB047K0123+	5.80 (0.228)	5.00 (0.195)	3.00 (0.118)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	3.10 (0.122)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	3000	ВС
0.015	CB047K0153+	5.80 (0.228)	5.00 (0.195)	3.40 (0.136)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	3.45 (0.136)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	2800	ВС
0.018	CB047K0183+	5.80 (0.228)	5.00 (0.195)	4.00 (0.157)	0.80 (0.032)	12.0 (0.472)	8.00 (0.315)	4.10 (0.162)	330 (12.99)	12.4 (0.488)	18.4 (0.724)	1500	2300	ВС
0.022	CB057K0223+	7.20 (0.283)	6.10 (0.240)	3.40 (0.136)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	3.80 (0.149)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1000	2250	ВС
0.027	CB057K0273+-	7.20 (0.283)	6.10 (0.240)	4.00 (0.157)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	4.80 (0.189)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1000	1800	ВС
0.033	CB057K0333+	7.20 (0.283)	6.10 (0.240)	4.80 (0.189)	0.8 (0.032)	16.0 (0.629)	12.0 (0.472)	5.23 (0.206)	330 (12.99)	16.4 (0.645)	22.4 (0.881)	1000	1100	ВС
0.047	CB167K0473+	10.5 (0.413)	7.60 (0.299)	3.80 (0.150)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	3.93 (0.155)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	500	1400	ВС
0.056	CB167K0563+	10.5 (0.413)	7.60 (0.299)	4.60 (0.181)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	6.19 (0.244)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	500	900	ВС
0.068	CB167K0683+	10.5 (0.413)	7.60 (0.299)	5.50 (0.216)	0.80 (0.032)	24.0 (0.944)	12.0 (0.472)	6.19 (0.244)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	500	900	ВС
0.082	CB177K0823+	12.8 (0.503)	10.2 (0.402)	4.50 (0.177)	0.80 (0.032)	24.0 (0.944)	16.0 (0.629)	4.70 (0.185)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	900	ВС
0.100µF	CB177K0104+	12.8 (0.503)	10.2 (0.402)	4.60 (0.181)	0.80 (0.032)	24.0 (0.944)	16.0 (0.629)	4.70 (0.185)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	900	ВС

For other Values: upon request

Replace the + by the tolerance code: J = 5% or K = 10%

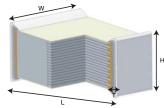
Replace the – by the packaging suffix: – = bulk





Capacitance Values & Nominal Voltages

CAPACITANCE VALUES (CR) AND NOMINAL VOLTAGES (VR)



millimeters (inches)

			VOLTAGE Vdc: 630V Vac: 250V											
Capacitance Range (CR)	Ordering Code	Chip Dimensions *Tolerances (page 6)			Tape Dimensions		Reel Dimensions			Packaging Unit		Reel Pkg		
,		Г	W	H max	Т	W	P1	K0	Α	W1	W2 max	Bulk	Reel	Code
0.120	CB177K0124+	12.8 (0.503)	10.2 (0.402)	6.00 (0.236)	0.80 (0.032)	24.0 (0.944)	16.0 (0.629)	7.00 (0.275)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	600	ВС
0.15*	CB177K0154K	12.8 (0.503)	10.2 (0.402)	6.90 (0.271)	0.80 (0.032)	24.0 (0.944)	16.0 (0.629)	7.00 (0.275)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	600	ВС
0.180	CB187K0184+	15.3 (0.601)	13.7 (0.539)	5.60 (0.220)	0.80 (0.032)	24.0 (0.944)	24.0 (0.944)	6.30 (0.248)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	400	ВС
0.220	CB187K0224+	15.3 (0.601)	13.7 (0.539)	6.00 (0.236)	0.80 (0.032)	24.0 (0.944)	24.0 (0.944)	6.30 (0.248)	330 (12.99)	24.4 (0.961)	30.4 (1.196)	300	400	ВС

For other Values: upon request

Replace the + by the tolerance code: J = 5% or K = 10%

Replace the -- by the packaging suffix: -- = bulk

BA or BC = tape & reel

*Only available in tolerance ±10%



Mounting and Soldering Recommendations

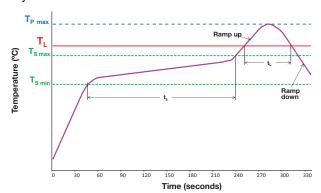
MOUNTING AND SOLDERING RECOMMENDATIONS **SOLDERING PROFILE**

The capacitors can be mounted using infrared and vapor phase soldering following recommended below. They are NOT suitable for wave soldering.

All temperature refer to topside of the package, measured on the package body surface.

Profile Feature	1206 to 1812	2220 to 6054		
Ramp-Up $(T_{s max} \text{ to } T_p)$	3°C / second max	3°C / second max		
	150°C 200°C 180 sec. max	150°C 200°C 180 sec. max		
$\begin{tabular}{ll} Time maintained above \\ - Temperature (T_L) \\ - Time (t_L) \end{tabular}$	217°C 60 sec. max	217°C 75 sec. max		
Peak temperature (T _{p max})	250°C	255°C		
Customer Peak temperature (T _D)	< 250°C	< 255°C		
Time within 5°C of peak temperature (T _p -5°C)*	10 sec.	10 sec.		
Ramp-Down	6°C / sec.	6°C / sec.		

^{*} Example : $T_0 = 238.5$ °C =>> $t_0 = time between 238.5$ °C and 233.5°C (T_0 -5°C)

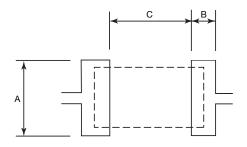


Reflow soldering referring to JEDEC Standard with some limitations # JEDEC J-Std 020C

RECOMMENDED SOLDER PASTE THICKNESS

For optimum solderability, the recommended soldering paste thickness: 1206 to 2824: 150 to 200µm 4030 to 6054 :200 to 300µm

In case of hand soldering, the temperature of the soldering iron should not be above 250°C. Special care must be taken to avoid touching the capacitor body with the iron tip.



PAD DIMENSIONS: MILLIMETERS (INCHES)

Size Code	Case Size	Α	В	С
01	1206	1.30 (0.051)	1.30 (0.051)	2.20 (0.087)
02	1210	2.00 (0.079)	1.30 (0.051)	2.20 (0.087)
03	1812	3.00 (0.118)	1.50 (0.059)	3.50 (0.137)
04	2220	5.00 (0.195)	1.90 (0.075)	4.50 (0.178)
05	2824	6.00 (0.234)	2.50 (0.098)	5.70 (0.224)
16	4030	7.50 (0.295)	3.00 (0.118)	8.00 (0.315)
17	5040	11.2 (0.441)	3.50 (0.137)	10.3 (0.406)
18	6054	14.6 (0.575)	3.60 (0.147)	12.6 (0.496)

RECOMMENDED CLEANING

To clean flux from the PC board assembly, the recommended products are: ethanol, isopropyl alcohol, and deionized water wash. The cleaning products to avoid are: Toluene, Xylene, Trichloroethylene, Terpene Cleaner EC-7, surface active agent. In case of using another solvent, please contact us.

OTHER CAUTIONS

Flame retardancy: the dielectric film is not a flame retardant material.

Environment: contact us when chips are used in humid or gas atmosphere and /or when using resin.

Recommended handling: do not use edged tools, so not to damage the capacitors..

TIN WHISKERS TESTS: JEDEC STANDARD NO 22A121

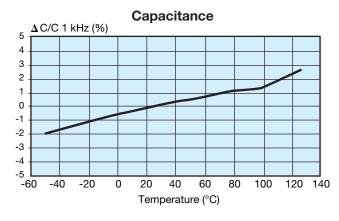
Stress Type	Ref. Spec.	Test Conditions	Analysis	Results
Temperature cycling	JESD22-A104	-55°C +85(+10/-0)°C air 5 to 10 minutes soak 3 cycles/hour	SEM x 1000	Pass
Ambient Temperature / Humidity Storage		30+/-2°C - 60+/-3% RH -2000H	SEM x 1000	Pass
High Temperature / Humidity Storage		70+/-5°C - 93+3/-2% RH -1000H	SEM x 1000	Pass



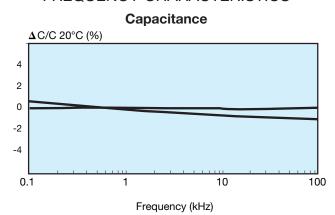
Electrical Characteristics versus Temperature and Frequency

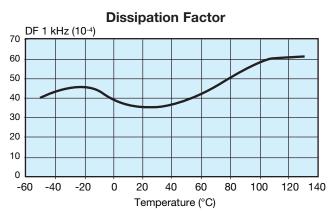
ELECTRICAL CHARACTERISTICS VERSUS TEMPERATURE AND FREQUENCY

ELECTRICAL CHARACTERISTICS

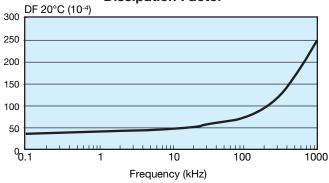


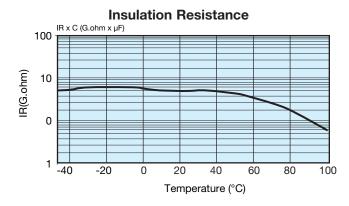
FREQUENCY CHARACTERISTICS



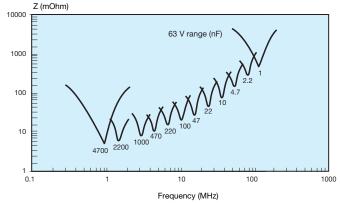


Dissipation Factor





Impedance



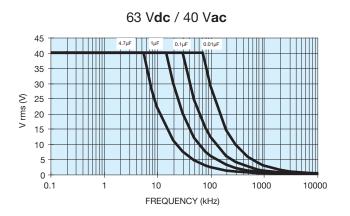


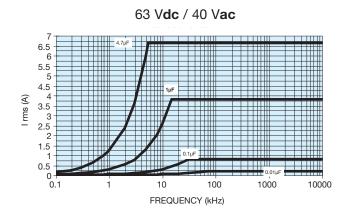
RMS Voltage and Current versus Frequency

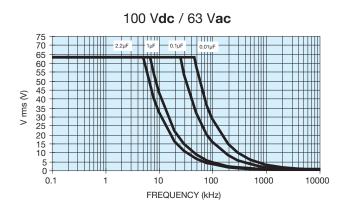
RMS VOLTAGE AND CURRENT VERSUS FREQUENCY

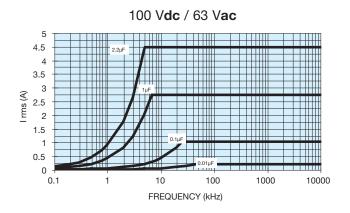
MAXIMUM VOLTAGE (VRMS) AND CURRENT (IRMS) VS FREQUENCY

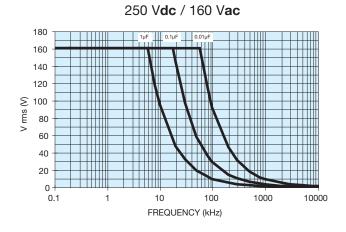
Typical curves results from measurement carried out at ambient temperature (25°C) and sinusoidal wave-forms (for size CB01 to CB05)

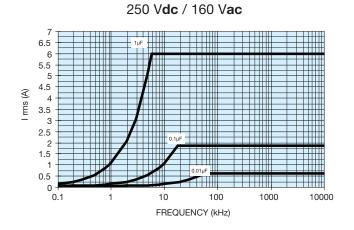












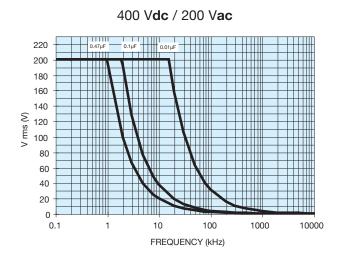


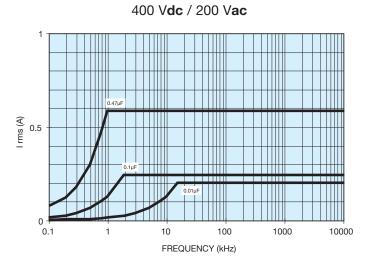
RMS Voltage and Current versus Frequency

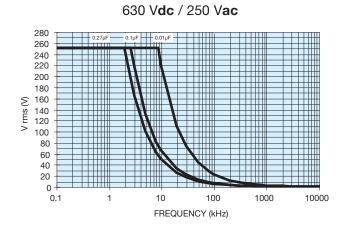
RMS VOLTAGE AND CURRENT VERSUS FREQUENCY

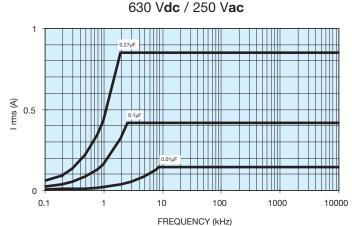
MAXIMUM VOLTAGE (VRMS) AND CURRENT (IRMS) VS FREQUENCY

Typical curves results from measurement carried out at ambient temperature (25°C) and sinusoidal wave-forms (for size CB03 to CB05)









MAXIMUM PULSE RISE TIME (DV/DT)

Voltage Range	25	50	63	100	250	400	630
Dv/dt max. (V/µsec)	15	40	40	50	150	200	250



RoHS

MATERIALS CONTROLLED BY ROHS (PPM BY WEIGHT):

Mass / unit (g)	Lead	Mercury	Cadmium	Hexavalent Chromium	PBB	PBDE
CB range	0	0	0	0	0	0
RoHS Limit (ppm)	1000	1000	100	1000	1000	1000
Pass/Fail	Pass	Pass	Pass	Pass	Pass	Pass

This product has been tested and found to be compliant with all requirements, provisions, and exemptions of EU Directive 2002/95/EC of the European Parliament and Council of January 27, 2003. On the Restriction of use of certain Hazardous Substances (RoHS) in electrical and electronic equipment and EU Directive 2000/53/EC regarding ELV or End of Life Vehicle.

ROHS / ELV STATUS

External Plating

100% Matte Sn as standard

LEAD-FREE STATUS / MOISTURE SENSITIVITY RANKING

Pb Free Reflow Solder compliant, MSL = 3.

Reflow soldering referring to Jedec Standard with some limitations. Additional JESD-97 data to be phased in MSL e3 termination.

PRODUCT LABELING:

(For informational purposes only to be phased in on reel and container.)

Pb Free: RoHS Compliant:





PRODUCT TRACEABILITY:

Full internal material traceability by reference to unique lot number marked on reel and external package.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Kyocera AVX:

CB017C0103JBC CB017C0223J--

KYOCERA AVX:

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