

CA97 Series, Solid Tantalum Chip Capacitors, Conformal Coated, Ultra-Low ESR, Maximum CV

FEATURES

- Operative Standard: GJB5437-2005 and ZZR(Z)-Q/MM20145A-2007
- New case size offerings
- Terminations: 100% tin (2) standard; tin / lead available
- Extremely low ESR
- Mounting: surface mount
- Ripple current up to 3.7A
- 100% surge current tested
- Moisture sensitivity level 2a
- RoHS-compliant and non RoHS-compliant both available



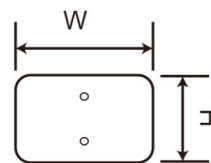
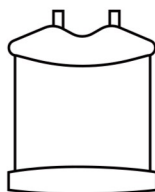
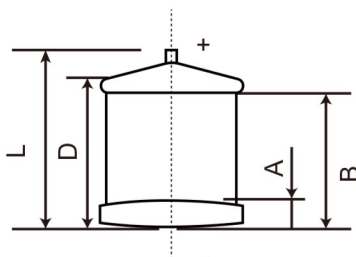
PERFORMANCE / ELECTRICAL CHARACTERISTICS

Operating Temperature: -55 °C to +125 °C
(above 85 °C, voltage derating is required)

Capacitance Range: 10 µF to 2200 µF

Capacitance Tolerance: ± 10 %, ± 20 % standard

Voltage Rating: 4 V_{DC} to 75 V_{DC}



External dimensions of capacitors

Size Code	Dimensions mm					
	L max	W	H	A	B	D
E	7.6	4.4±0.4	4.0±0.4	1.3±0.4	4.6±0.6	6.4
R	7.6	6.0±0.4	3.6±0.4	1.3±0.4	4.6±0.6	6.2
F	7.6	6.0±0.4	4.7±0.4	1.3±0.4	4.6±0.6	6.2
Z	7.6	6.0±0.4	6.0±0.4	1.3±0.4	4.6±0.6	6.2
H	8.0	6.0 ^{+0.4} _{-0.6}	5.2±0.4	1.4±0.4	5.0±0.6	6.6
N	8.0	6.0 ^{+0.4} _{-0.6}	6.4±0.4	1.4±0.4	5.0±0.6	6.6



RATINGS AND CASE CODES

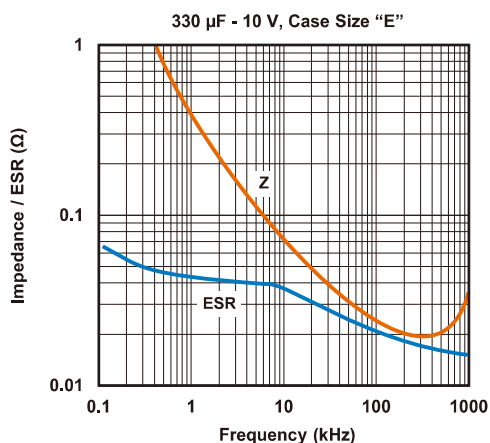
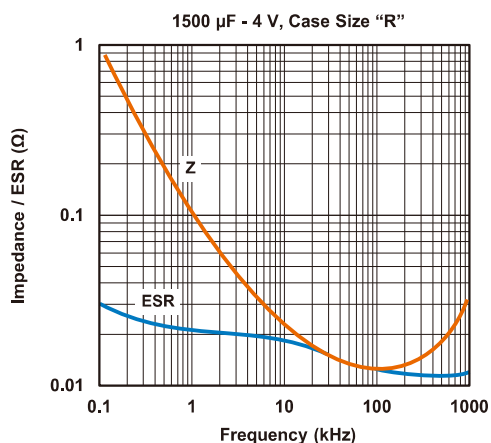
μF	4 V	6.3 V	10 V	16 V	20 V	25 V	35 V	40 V	50 V	63 V	75 V
10										D	R
15									E / R	R	R / F
22									R	F	Z / H
33									F	H / Z	
47							R		H / Z		
68						R	F				
100						F	F / H	H			
150						F					
220				E	R						
330			E	F	F / H						
470		E	E	H	H						
680	E	E	R	H							
1000	E / R	R	F								
1500	R	F									
2200	R										

How to order

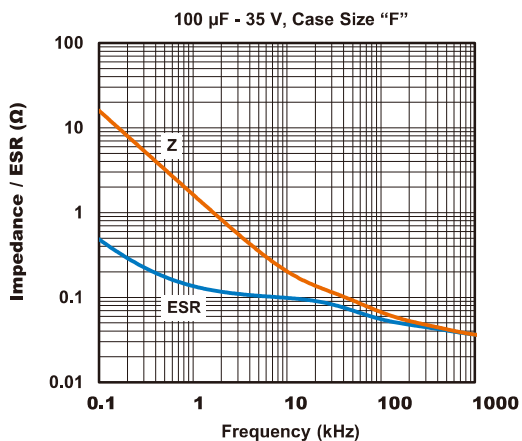
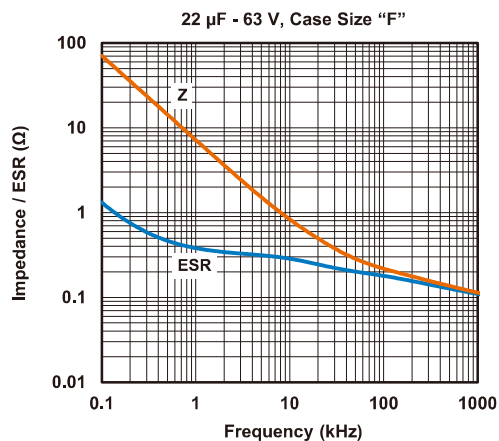
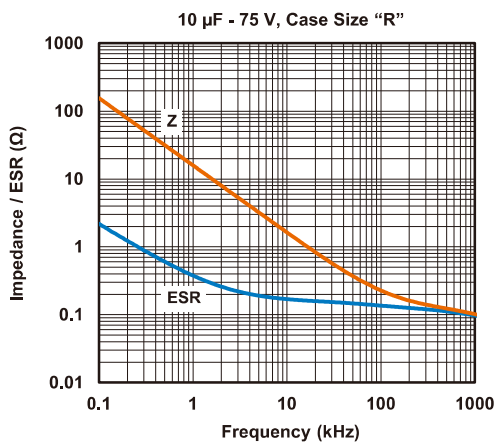
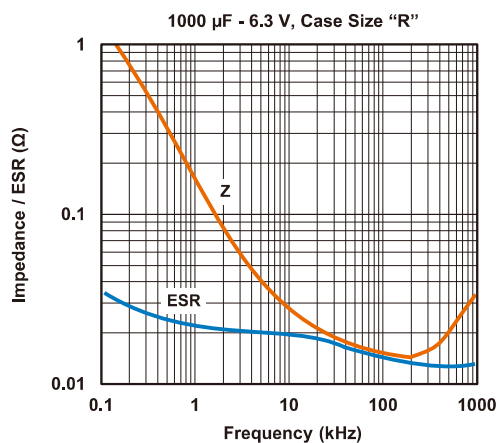
CA97 TYPE	687 CAPACITANCE	M CAPACITANCE TOLERANCE	006 DC VOLTAGE RATING AT +85 °C	E CASE CODE	2 TERMINATION	C REEL SIZE AND PACKAGING
This is expressed in pF. The first two digits are the significant figures. The third is the number of zeros to follow.		M = ± 20 % K = ± 10 %	Code 035: 35VDC 006=6.3VDC 010=10VDC 025=25VDC 035= 35VDC 050= 50VDC	See Ratings and Case Codes table	2 = 100 % tin 8 = solder plated (60/40) special order	C: Tray

Part Number	Case code	Nominal Capacitance	Rated Voltage at +85°C	Rated Voltage at +125°C	Max DCL at +25°C	Max DF at +25°C 120Hz	Max ESR at +25°C 100kHz	Ripple Current (A) 100kHz Max
		μF	V	V	μA	%	mΩ	A
CA97476K050Z2R	Z	47	50	33	23.5	6.0	240	1.1
CA97226M063F2R	F	22	63	42	13.9	6.0	250	1.0
CA97226K050R2R	R	22	50	33	11.0	6.0	220	1.1
CA97336K050F2R	F	33	50	33	16.5	6.0	150	1.3
CA97336K050F2R	F	33	50	33	16.5	6.0	150	1.3
CA97226K063F2R	F	22	63	42	13.9	6.0	250	1.0
CA97476K050Z2R	Z	47	50	33	23.5	6.0	240	1.1
CA97476M050Z2R	Z	47	50	33	23.5	6.0	240	1.1
CA97107M035F2R	F	100	35	23	35.0	8.0	100	1.6
CA97157K025F2R	F	150	25	17	37.5	8.0	80	1.8
CA97227K016E2R	E	220	16	10	35.2	8.0	60	2.3
CA97227K020R2R	R	220	20	13	44.0	8.0	80	1.8
CA97108K010F2R	F	1000	10	7	100.0	20.0	120	1.4
CA97476K050Z2R	Z	47	50	33	23.5	6.0	240	1.1
CA97226M063F2R	F	22	63	42	13.9	6.0	250	1.0
CA97476K050Z2R	Z	47	50	33	23.5	6.0	240	1.1
CA97226M063F2R	F	22	63	42	13.9	6.0	250	1.0

TYPICAL CURVES ESR AND Z VS. FREQUENCY



TYPICAL CURVES ESR AND Z VS. FREQUENCY



POWER DISSIPATION

CASE CODE	MAXIMUM PERMISSIBLE POWER DISSIPATION AT +25 °C (W) IN FREE AIR
E	0.240
R,F	0.250
Z	0.265
H	0.265

STANDARD PACKAGING QUANTITY

CASE CODE	UNITS PER 7" REEL
E	500
R	300
F	250
Z	250
H	200