

CQ92P

- Polypropylene film/foil capacitor
- According to IEC 60384-13

TYPICAL APPLICATIONS

High fidelity, TV and other high frequency applications.

CONSTRUCTION

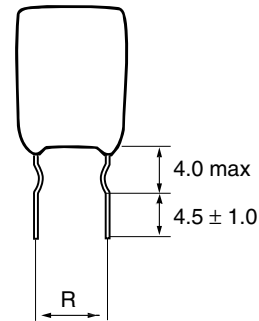
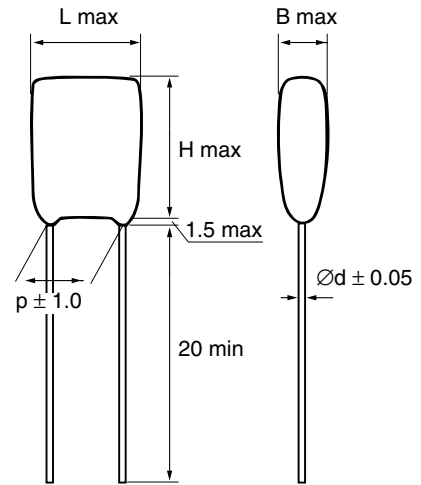
Capacitor with polypropylene film and metal foil electrodes. Radial leads of tinned wire are electrically welded to the electrodes. Coated with epoxy resin.

TECHNICAL DATA

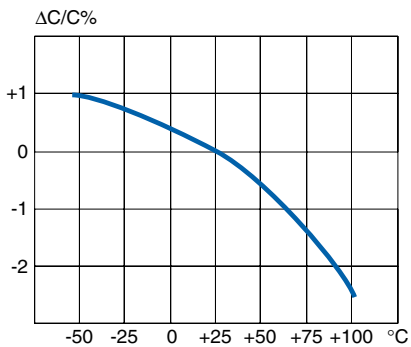
Rated voltage U_R , VDC	50	100	250
Rated voltage U_R , VAC	30	63	160
Capacitance, μF	0.00033– 0.1	0.00033– 0.1	0.001– 0.033
Capacitance tolerance	$\pm 10\%$, $\pm 5\%$, $\pm 2\%$		
Temperature range	$-25 \dots +85^\circ\text{C}$		
Climatic category	IEC 60068-1, 25/085/21		
Dissipation factor $\tan\delta$	at $+20^\circ\text{C}$: $\tan\delta \leq 0.1\%$ at 1 kHz.		
Insulation resistance	Measured at $+20^\circ\text{C}$, according to IEC 60384-13. Min. value between terminals: 30 000 M Ω .		

ENVIRONMENTAL TEST DATA

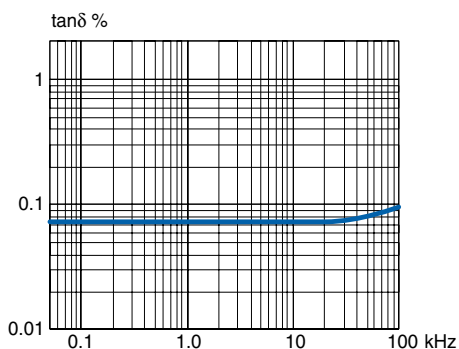
Damp heat test	Test conditions:	$T = +40^\circ\text{C}$, RH = 93%, $t = 21$ days.
	Test criteria:	$\Delta C/C \leq \pm 3\%$, $\tan\delta \leq 0.12\%$ (kHz) IR after test 9 000 M Ω .
Endurance test	Test conditions:	$T = +85^\circ\text{C}$, $U = 1.5 \times U_R$, $t = 1000$ h.
	Test criteria:	$\Delta C/C \leq \pm 5\%$, $\tan\delta \leq 0.11\%$ (1kHz) IR after test 5 000 M Ω .



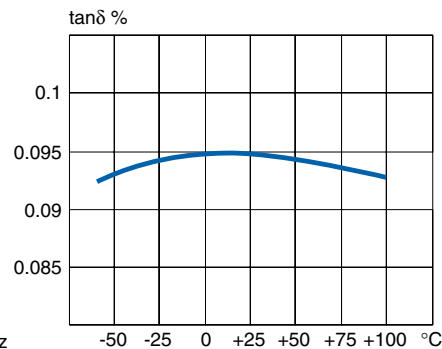
TYPICAL DATA



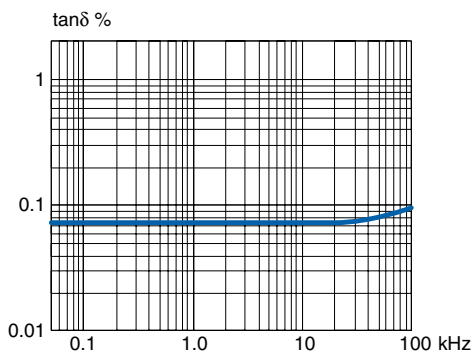
Capacitance vs. temperature (at 1 kHz)



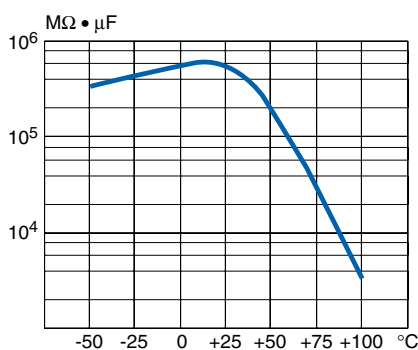
Capacitance vs. frequency (at +23°C)



Dissipation factor vs. temperature (at 1 kHz)



Dissipation factor vs. frequency (at +23°C)



Insulation resistance vs. temperature

ORDERING INFORMATION

See article table and page 20.

MARKING

- Rated capacitance
- Tolerance code
- Rated voltage

ARTICLE TABLE

Capacitance μ F	Max dimensions in mm			p	R	Quantity per package		Article code
	B	H	L			Bulk	Ammo	
50 VDC/ 30 VAC & 100 VDC/ 63 VAC								
0.00033	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 331K100 TA16
0.00039	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 391K100 TA16
0.00047	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 471K100 TA16
0.00056	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 561K100 TA16
0.00068	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 681K100 TA16
0.00082	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 821K100 TA16
0.0010	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 102K100 TA16
0.0012	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 122K100 TA16
0.0015	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 152K100 TA16
0.0018	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 182K100 TA16
0.0022	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 222K100 TA16
0.0027	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 272K100 TA16
0.0033	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 332K100 TA16
0.0039	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 392K100 TA16
0.0047	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 472K100 TA16
0.0056	4.0	12.0	6.0	3.5	5.0	1000	2000	CQ92P 562K100 TA16
0.0068	4.0	12.0	7.0	3.5	5.0	1000	2000	CQ92P 682K100 TA16
0.0082	4.0	12.0	7.0	3.5	5.0	1000	2000	CQ92P 822K100 TA16
0.010	5.0	13.0	7.0	5.0	5.0	1000	2000	CQ92P 103K100 TA16
0.012	5.0	13.0	7.0	5.0	5.0	1000	2000	CQ92P 123K100 TA16
0.015	5.0	13.0	7.5	5.0	5.0	1000	2000	CQ92P 153K100 TA16
0.018	5.0	13.0	9.0	5.5	5.0	1000	2000	CQ92P 183K100 TA16
0.022	5.0	13.0	9.0	5.5	5.0	1000	2000	CQ92P 223K100 TA16
0.027	5.0	13.0	9.0	5.5	5.0	1000	2000	CQ92P 273K100 TA16
0.033	5.0	13.0	9.0	5.5	5.0	1000	2000	CQ92P 333K100 TA16
0.039	6.5	13.0	11.0	5.5	5.0	1000	1000	CQ92P 393K100 TA16
0.047	6.5	13.0	11.0	5.5	5.0	1000	1000	CQ92P 473K100 TA16
0.056	6.5	14.0	11.0	7.0	5.0	500	1000	CQ92P 563K100 TA16
0.068	6.5	14.0	11.0	7.0	5.0	500	1000	CQ92P 683K100 TA16
0.082	8.5	15.0	13.0	7.0	5.0	500		CQ92P 823K100
0.10	8.5	15.0	13.0	7.0	5.0	500		CQ92P 104K100
250 VDC/ 160 VAC								
0.0010	4.5	12.0	8.0	5.0	5.0	1000	2000	CQ92P 102K250 TA16
0.0012	4.5	12.0	8.0	5.0	5.0	1000	2000	CQ92P 122K250 TA16
0.0015	4.5	12.0	8.0	5.0	5.0	1000	2000	CQ92P 152K250 TA16
0.0018	4.5	12.0	8.0	5.0	5.0	1000	2000	CQ92P 182K250 TA16
0.0022	4.5	12.0	8.0	5.0	5.0	1000	2000	CQ92P 222K250 TA16
0.0027	5.0	13.0	8.5	5.0	5.0	1000	2000	CQ92P 272K250 TA16
0.0033	5.0	13.0	8.5	5.0	5.0	1000	2000	CQ92P 332K250 TA16
0.0039	5.0	13.0	8.5	5.0	5.0	1000	2000	CQ92P 392K250 TA16
0.0047	5.0	13.0	8.5	5.0	5.0	1000	2000	CQ92P 472K250 TA16
0.0056	5.5	13.5	10.0	5.0	5.0	1000	2000	CQ92P 562K250 TA16
0.0068	5.5	13.5	10.0	5.0	5.0	1000	2000	CQ92P 682K250 TA16
0.0082	6.0	14.0	11.0	5.0	5.0	1000	1000	CQ92P 822K250 TA16
0.010	6.0	14.0	11.0	5.0	5.0	1000	1000	CQ92P 103K250 TA16
0.012	6.5	15.5	12.0	5.0	5.0	500	1000	CQ92P 123K250 TA16
0.015	6.5	15.5	12.0	7.5	5.0	500	1000	CQ92P 153K250 TA16
0.018	7.0	16.0	12.0	7.5	5.0	500	1000	CQ92P 183K250 TA16
0.022	7.0	16.0	12.0	7.5	5.0	500	1000	CQ92P 223K250 TA16
0.027	8.0	17.0	12.5	7.5	5.0	500	1000	CQ92P 273K250 TA16
0.033	8.0	17.0	12.5	7.5	5.0	500	1000	CQ92P 333K250 TA16