

TAZ Series

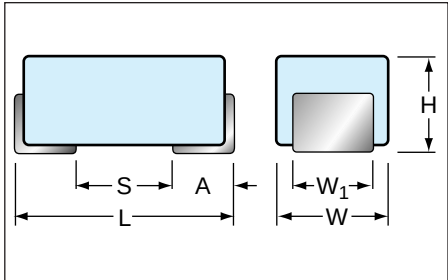
Including CWR09 and COTS-Plus



The TAZ part has fully molded, compliant leadframe construction designed for use in applications utilizing solder (Reflow, Wave or Vapor Phase), conductive adhesive or thermal compression bonding techniques. Each chip is marked with polarity, capacitance code and rated voltage.

The series comprises eight case sizes (see dimensional chart below) with the new V case enabling capacitance values to 470 μ F. The C case, with its non-standard aspect ratio, is retained as a QPL (Qualified Product List) only special.

CASE DIMENSIONS: millimeters (inches)



Case Code	Length L ± 0.38 (0.015)	Width W ± 0.38 (0.015)	Height H ± 0.38 (0.015)	Term. Width W_1	Term. Length A ± 0.13 (.005)	S min
A	2.54 (0.100)	1.27 (0.050)	1.27 (0.050)	1.27 ± 0.13 (0.05 ± 0.005)	0.76 (0.030)	0.38 (0.015)
B	3.81 (0.150)	1.27 (0.050)	1.27 (0.050)	1.27 ± 0.13 (0.05 ± 0.005)	0.76 (0.030)	1.65 (0.065)
D	3.81 (0.150)	2.54 (0.100)	1.27 (0.050)	2.41 ± 0.13 /-0.25 (0.095 ± 0.005 /-0.01)	0.76 (0.030)	1.65 (0.065)
E	5.08 (0.200)	2.54 (0.100)	1.27 (0.050)	2.41 ± 0.13 /-0.25 (0.095 ± 0.005 /-0.01)	0.76 (0.030)	2.92 (0.115)
F	5.59 (0.220)	2.54 (0.100)	1.78 (0.070)	3.30 ± 0.13 (0.13 ± 0.005)	0.76 (0.030)	3.43 (0.135)
G	6.73 (0.265)	2.79 (0.110)	2.79 (0.110)	2.67 ± 0.13 (0.105 ± 0.005)	1.27 (0.050)	3.56 (0.140)
H	7.24 (0.285)	3.81 (0.150)	2.79 (0.110)	3.68 ± 0.13 /-0.51 (0.145 ± 0.005 /-0.02)	1.27 (0.050)	4.06 (0.160)
V	6.93 (0.273)	5.97 (0.235)	3.45 (0.136)	3.05 ± 0.13 (0.120 ± 0.005)	1.4 (0.055)	3.38 (0.133)

MARKING

(White marking on black body)



Polarity Stripe (+)

Capacitance Code
Rated Voltage

Case sizes A through E share a common (0.050" nom) height profile, compatible with PCMCIA type II applications. These allow downsizing in all portable applications, ranging from sub-miniature hard-disc drive (HDD)/computer to portable communications/GPS systems. The F case at 0.070" nom offers the versatility of a low profile design, while allowing capacitance ratings to 100 μ F for low voltage filtering applications.

Cases G, H and V also offer lower profile and greater volumetric efficiency than their nearest EIA sized counterparts (ref. CWR11). These are especially suited to power supply applications. The V case is a new addition to the series designed to maximize capacitance/voltage ratings while achieving minimum ESR levels and maximum power dissipation. The regular configuration allows for banking (brickwalling) applications where maximum capacitance with minimal ESR and inductance are required in a limited board space.

TAZ Series



Including CWR09 and COTS-Plus

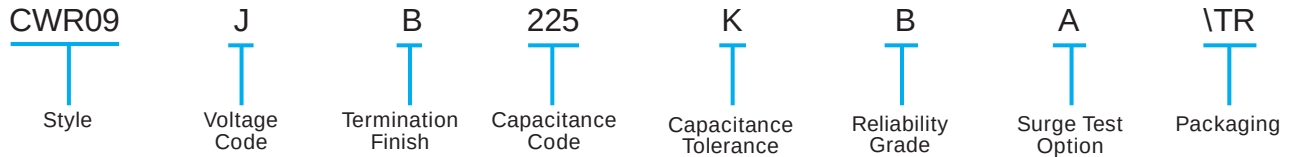
Technical Data:		Unless otherwise specified, all technical data relate to an ambient temperature of 25°C							
Capacitance Range:		0.1 to 470 μ F							
Capacitance Tolerance:		$\pm 20\%$, $\pm 10\%$, $\pm 5\%$							
Rated DC Voltage: (V_R)	$\leq 85^\circ\text{C}$:	4	6	10	15	20	25	35	50
Category Voltage: (V_C)	125°C :	2.7	4	7	10	13	17	23	33
Surge Voltage: (V_C)	$\leq 85^\circ\text{C}$:	5.2	8	13	20	26	33	46	65
	125°C :	3.5	5	9	12	16	21	28	40
Operating Temperature Range:		-55°C to $+125^\circ\text{C}$							

CWR09 - MIL-PRF-55365/4

Fully qualified to MIL-PRF-55365/4, this series represents the most flexible of surface mount form factors, offering eight case sizes (A through H). This series is fully interchangeable with CWR06 conformal types, while offering the advantages of molded body/compliant termination construction, polarity, capacitance and JAN brand packaging. The molded construction is compatible with a wide range of SMT board assembly processes including wave or reflow solder, conductive epoxy or compression bonding techniques. The five

smaller cases are characterized by their low profile construction, with the A case being the world's smallest molded military tantalum. There are three termination finishes available: fused solder plated ("K" per MIL-PRF-55365), hot solder dipped ("C") and gold plated ("B"). In addition, the molding compound has been selected to meet the requirements of UL94V-0 and outgassing requirements of NASA SP-R-0022A.

PART NUMBERING SYSTEM



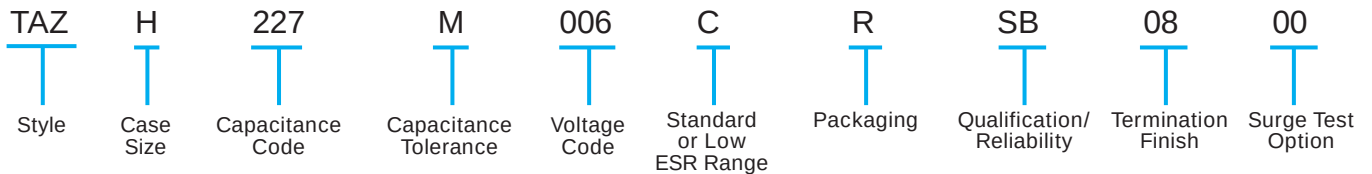
TAZ COTS-PLUS SERIES

This series features:

- CWR09 form factor in Standard and Extended ratings.
- Low Profile molded design (Cases A through E).
- Low ESR Ratings (Cases G through V).
- Extended Case size (V) for ratings to 470 μ F.
- Weibull Reliability Grading and Surge Test options.

All ratings in this series offer the advantages of molded body/compliant termination construction, polarity, capacitance and voltage marking. The molded construction is compatible with a wide range of SMT board assembly processes including wave or reflow solder, conductive epoxy or compression bonding techniques.

PART NUMBERING SYSTEM



Surface Mount Military



CWR09 - MIL-PRF-55365/4 and TAZ COTS-Plus

AVX Part Number	QPL Part Number (for reference only)	DC rated voltage (85°C) (volts)	Cap (nom) μF	DC Leakage (max)			Dissipation Factor (max)			ESR (max) 100 kHz +25°C (Ohms)	Case Size
				+25°C (μA)	+85°C (μA)	+125°C (μA)	+25°C (%)	+85/125°C (%)	-55°C (%)		
TAZA225*004C□#@0^++	CWR09C^225*+□	4	2.2	1.0	10	12	6	8	8	8.0	A
TAZA475*004C□#@0^++		4	4.7	1.0	10	12	6	8	8	12.0	A
TAZB475*004C□#@0^++	CWR09C^475*+□	4	4.7	1.0	10	12	6	8	8	8.0	B
TAZB106*004C□#@0^++		4	10.0	1.0	10	12	8	10	10	8.0	B
TAZD106*004C□#@0^++	CWR09C^106*+□	4	10.0	1.0	10	12	8	8	10	4.0	D
TAZE156*004C□#@0^++	CWR09C^156*+□	4	15.0	1.0	10	12	8	10	12	3.5	E
TAZD226*004C□#@0^++		4	22.0	1.0	10	12	8	10	12	4.0	D
TAZE336*004C□#@0^++		4	33.0	2.0	20	24	8	10	12	3.0	E
TAZF336*004C□#@0^++	CWR09C^336*+□	4	33.0	2.0	20	24	8	10	12	2.2	F
TAZG686*004C□#@0^++	CWR09C^686*+□	4	68.0	3.0	30	36	10	12	12	1.1	G
TAZF107*004C□#@0^++		4	100.0	4.0	40	48	10	12	12	2.0	F
TAZH107*004C□#@0^++	CWR09C^156*+□	4	100.0	4.0	40	48	10	12	12	0.9	H
TAZG157*004C□#@0^++		4	150.0	6.0	60	72	10	12	12	1.0	G
TAZA155*006C□#@0^++	CWR09D^155*+□	6	1.5	1.0	10	12	6	8	8	8.0	A
TAZA335*006C□#@0^++		6	3.3	1.0	10	12	6	8	8	12.0	A
TAZB335*006C□#@0^++	CWR09D^335*+□	6	3.3	1.0	10	12	6	8	8	8.0	B
TAZB685*006C□#@0^++		6	6.8	1.0	10	12	6	8	8	8.0	B
TAZD685*006C□#@0^++	CWR09D^685*+□	6	6.8	1.0	10	12	6	8	8	4.5	D
TAZE106*006C□#@0^++	CWR09D^106*+□	6	10.0	1.0	10	12	8	10	12	3.5	E
TAZD156*006C□#@0^++		6	15.0	1.0	10	12	8	10	12	5.0	D
TAZE226*006C□#@0^++		6	22.0	2.0	20	24	8	10	12	3.5	E
TAZF226*006C□#@0^++	CWR09D^226*+□	6	22.0	2.0	20	24	8	10	12	2.2	F
TAZG476*006C□#@0^++	CWR09D^476*+□	6	47.0	3.0	30	36	10	12	12	1.1	G
TAZF686*006C□#@0^++		6	68.0	4.0	40	48	10	12	12	1.5	F
TAZH686*006C□#@0^++	CWR09D^686*+□	6	68.0	4.0	40	48	10	12	12	0.9	H
TAZG107*006C□#@0^++		6	100.0	6.0	60	72	10	12	12	1.1	G
TAZG107*006L□#@0^++		6	100.0	6.0	60	72	10	12	12	0.150	G
TAZH227*006C□#@0^++		6	220.0	10.0	100	120	10	12	12	0.9	H
TAZH227*006L□#@0^++		6	220.0	10.0	100	120	10	12	12	0.100	H
TAZV477*006L□#@0^++		6	470.0	28.0	280	336	12	14	14	0.055	V

Following the voltage code, C designates Standard, L designates Low ESR Ratings

Part Number Designations

^ = Termination Finish:¹

For TAZ p/n:

9 = Gold Plated

8 = Hot Solder Dipped

0 = Solder Fused

For CWR p/n:

B = Gold Plated

C = Hot Solder Dipped

K = Solder Fused

= Inspection Level:

S = Std. Conformance

L = Optional Group A

For CWR p/n:

M = Military

Conformance per

MIL-PRF-55365

* = Tolerance:

M = ±20%

K = ±10%

J = ±5% (Special
order only)

@ = Failure Rate Level:

Weibull: B = 0.1%/1000 Hrs.

(90% C = 0.01%/1000 Hrs.

conf.)

Comm: Z = Non ER

+ = Surge Option:

For TAZ p/n:

00 = None

23 = 10 cycles, +25°C

24 = 10 cycles,

-55°C & +85°C

For CWR p/n:

A = 10 cycles, +25°C

B = 10 cycles,

-55°C & +85°C

□ = Packaging:

For TAZ p/n:

B = Bulk

R = 7" T&R

S = 13" T&R

For CWR p/n:

Bulk = Standard

\TR = 7" T&R

\TR13 = 13" T&R

\W = Waffle

(1) V case size is only available as solder fused

Surface Mount Military



CWR09 - MIL-PRF-55365/4 and TAZ COTS-Plus

AVX Part Number	QPL Part Number (for reference only)	DC rated voltage (85°C) (volts)	Cap (nom) µF	DC Leakage (max)			Dissipation Factor (max)			ESR (max) 100 kHz +25°C (Ohms)	Case Size
				+25°C (µA)	+85°C (µA)	+125°C (µA)	+25°C (%)	+85/125°C (%)	-55°C (%)		
TAZA105*010C□#@0^++	CWR09F^105*@+□	10	1.0	1.0	10	12	6	8	8	10.0	A
TAZA225*010C□#@0^++		10	2.2	1.0	10	12	6	8	8	12.0	A
TAZB225*010C□#@0^++	CWR09F^225*@+□	10	2.2	1.0	10	12	6	8	8	8.0	B
TAZB475*010C□#@0^++		10	4.7	1.0	10	12	6	8	8	8.0	B
TAZD475*010C□#@0^++	CWR09F^475*@+□	10	4.7	1.0	10	12	6	8	8	4.5	D
TAZD685*010C□#@0^++		10	6.8	1.0	10	12	6	8	8	5.0	D
TAZE685*010C□#@0^++	CWR09F^685*@+□	10	6.8	1.0	10	12	6	8	8	3.5	E
TAZD106*010C□#@0^++		10	10.0	1.0	10	12	6	8	8	4.0	D
TAZE156*010C□#@0^++		10	15.0	2.0	20	24	8	10	10	3.0	E
TAZF156*010C□#@0^++	CWR09F^156*@+□	10	15.0	2.0	20	24	8	8	10	2.5	F
TAZE226*010C□#@0^++		10	22.0	3.0	30	36	8	10	10	2.0	E
TAZG336*010C□#@0^++	CWR09F^336*@+□	10	33.0	3.0	30	36	10	12	12	1.1	G
TAZF476*010C□#@0^++		10	47.0	4.0	40	48	10	12	12	1.5	F
TAZH476*010C□#@0^++	CWR09F^476*@+□	10	47.0	5.0	50	60	10	12	12	0.9	H
TAZG686*010C□#@0^++		10	68.0	6.0	60	72	10	12	12	1.1	G
TAZG686*010L□#@0^++		10	68.0	6.0	60	72	10	12	12	0.200	G
TAZH107*010C□#@0^++		10	100.0	10.0	100	120	10	12	12	0.9	H
TAZH107*010L□#@0^++		10	100.0	10.0	100	120	10	12	12	0.100	H
TAZH157*010C□#@0^++		10	150.0	15.0	150	180	10	12	12	0.9	H
TAZH157*010L□#@0^++		10	150.0	15.0	150	180	10	12	12	0.100	H
TAZV337*010L□#@0^++		10	330.0	33.0	330	396	12	14	14	0.060	V
TAZA684*015C□#@0^++	CWR09H^684*@+□	15	0.68	1.0	10	12	6	8	8	12.0	A
TAZA105*015C□#@0^++		15	1.0	1.0	10	12	6	8	8	15.0	A
TAZB155*015C□#@0^++	CWR09H^155*@+□	15	1.5	1.0	10	12	6	8	8	8.0	B
TAZB335*015C□#@0^++		15	3.3	1.0	10	12	6	8	8	9.0	B
TAZD335*015C□#@0^++	CWR09H^335*@+□	15	3.3	1.0	10	12	6	8	8	5.0	D
TAZD475*015C□#@0^++		15	4.7	1.0	10	12	6	8	8	6.0	D
TAZE475*015C□#@0^++	CWR09H^475*@+□	15	4.7	1.0	10	12	6	8	8	4.0	E
TAZE106*015C□#@0^++		15	10.0	2.0	20	24	6	8	8	4.0	E
TAZF106*015C□#@0^++	CWR09H^106*@+□	15	10.0	2.0	20	24	6	8	8	2.5	F
TAZF226*015C□#@0^++		15	22.0	3.0	30	36	8	10	10	3.0	F
TAZG226*015C□#@0^++	CWR09H^226*@+□	15	22.0	4.0	40	48	6	8	8	1.1	G
TAZH336*015C□#@0^++	CWR09H^336*@+□	15	33.0	5.0	50	60	8	8	10	0.9	H
TAZH686*015C□#@0^++		15	68.0	10.0	100	120	8	10	12	0.9	H
TAZH686*015L□#@0^++		15	68.0	10.0	100	120	8	10	12	0.150	H
TAZH107*015C□#@0^++		15	100.0	15.0	150	180	10	12	12	0.9	H
TAZH107*015L□#@0^++		15	100.0	15.0	150	180	10	12	12	0.125	H
TAZV157*015L□#@0^++		15	150.0	23.0	230	276	8	10	12	0.075	V
TAZV227*015L□#@0^++		15	220.0	33.0	330	396	10	12	14	0.075	V

Following the voltage code, C designates Standard, L designates Low ESR Ratings

Part Number Designations

^ = Termination Finish:¹

For TAZ p/n:

9 = Gold Plated

8 = Hot Solder Dipped

0 = Solder Fused

For CWR p/n:

B = Gold Plated

C = Hot Solder Dipped

K = Solder Fused

= Inspection Level:

S = Std. Conformance

L = Optional Group A

For CWR p/n:

M = Military

Conformance per

MIL-PRF-55365

* = Tolerance:

M = ±20%

K = ±10%

J = ±5% (Special
order only)

@ = Failure Rate Level:

Weibull: B = 0.1%/1000 Hrs.

(90% C = 0.01%/1000 Hrs.

conf.)

Comm: Z = Non ER

+ = Surge Option:

For TAZ p/n:

00 = None

23 = 10 cycles, +25°C

24 = 10 cycles,

-55°C & +85°C

For CWR p/n:

A = 10 cycles, +25°C

B = 10 cycles,

-55°C & +85°C

□ = Packaging:

For TAZ p/n:

B = Bulk

R = 7" T&R

S = 13" T&R

For CWR p/n:

Bulk = Standard

1TR = 7" T&R

1TR13 = 13" T&R

1W = Waffle

(1) V case size is only available as solder fused



Surface Mount Military



CWR09 - MIL-PRF-55365/4 and TAZ COTS-Plus

AVX Part Number	QPL Part Number (for reference only)	DC rated voltage (85°C) (volts)	Cap (nom) μF	DC Leakage (max)			Dissipation Factor (max)			ESR (max) 100 kHz +25°C (Ohms)	Case Size
				+25°C (μA)	+85°C (μA)	+125°C (μA)	+25°C (%)	+85/125°C (%)	-55°C (%)		
TAZA474*020C□#@0^++	CWR09J^474*+□	20	0.47	1.0	10	12	6	8	8	14.0	A
TAZA684*020C□#@0^++		20	0.68	1.0	10	12	6	8	8	15.0	A
TAZB684*020C□#@0^++	CWR09J^684*+□	20	0.68	1.0	10	12	6	8	8	10.0	B
TAZB105*020C□#@0^++	CWR09J^105*+□	20	1.0	1.0	10	12	6	8	8	12.0	B
TAZB225*020C□#@0^++		20	2.2	1.0	10	12	6	8	8	9.0	B
TAZD225*020C□#@0^++	CWR09J^225*+□	20	2.2	1.0	10	12	6	8	8	5.0	D
TAZD335*020C□#@0^++		20	3.3	1.0	10	12	6	8	8	6.0	D
TAZE335*020C□#@0^++	CWR09J^335*+□	20	3.3	1.0	10	12	6	8	8	4.0	E
TAZE475*020C□#@0^++		20	4.7	1.0	10	12	6	8	8	6.0	E
TAZE685*020C□#@0^++		20	6.8	2.0	20	24	6	8	8	5.0	E
TAZF685*020C□#@0^++	CWR09J^685*+□	20	6.8	2.0	20	24	6	8	8	2.4	F
TAZF156*020C□#@0^++		20	15.0	3.0	30	36	6	8	8	3.0	F
TAZG156*020C□#@0^++	CWR09J^156*+□	20	15.0	3.0	30	36	6	8	8	1.1	G
TAZG226*020C□#@0^++		20	22.0	4.0	40	48	6	8	8	2.5	G
TAZG226*020L□#@0^++		20	22.0	4.0	40	48	6	8	8	0.500	G
TAZH226*020C□#@0^++	CWR09J^226*+□	20	22.0	4.0	40	48	6	8	8	0.9	H
TAZH476*020C□#@0^++		20	47.0	10.0	100	120	8	10	10	0.9	H
TAZH476*020L□#@0^++		20	47.0	10.0	100	120	8	10	10	0.250	H
TAZV107*020L□#@0^++		20	100.0	20.0	200	240	10	12	14	0.095	V
TAZA334*025C□#@0^++	CWR09K^334*+□	25	0.33	1.0	10	12	6	8	8	15.0	A
TAZB684*025C□#@0^++	CWR09K^684*+□	25	0.68	1.0	10	12	6	8	8	7.5	B
TAZB105*025C□#@0^++		25	1.0	1.0	10	12	6	8	8	10.0	B
TAZD155*025C□#@0^++	CWR09K^155*+□	25	1.5	1.0	10	12	6	8	8	6.5	D
TAZD225*025C□#@0^++		25	2.2	1.0	10	12	6	8	8	6.0	D
TAZE225*025C□#@0^++	CWR09K^225*+□	25	2.2	1.0	10	12	6	8	8	3.5	E
TAZE335*025C□#@0^++		25	3.3	1.0	10	12	6	8	8	4.0	E
TAZF475*025C□#@0^++	CWR09K^475*+□	25	4.7	2.0	20	24	6	8	8	2.5	F
TAZF685*025C□#@0^++		25	6.8	2.0	20	24	6	8	8	3.0	F
TAZG685*025C□#@0^++	CWR09K^685*+□	25	6.8	2.0	20	24	6	8	8	1.2	G
TAZG106*025C□#@0^++	CWR09K^106*+□	25	10.0	3.0	30	36	6	8	8	1.4	G
TAZH156*025C□#@0^++	CWR09K^156*+□	25	15.0	4.0	40	48	6	8	8	1.0	H
TAZH226*025C□#@0^++		25	22.0	6.0	60	72	6	8	8	0.9	H
TAZH226*025L□#@0^++		25	22.0	6.0	60	72	6	8	8	0.200	H
TAZV686*025L□#@0^++		25	68.0	17.0	170	204	10	12	14	0.095	V

Following the voltage code, C designates Standard, L designates Low ESR Ratings

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For TAZ p/n:

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0 = Solder Fused

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Conformance per
MIL-PRF-55365

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order only)

@ = Failure Rate Level:

Weibull: B = 0.1%/1000 Hrs.

(90% C = 0.01%/1000 Hrs.

conf.)

Comm: Z = Non ER

+ = Surge Option:

For TAZ p/n:

00 = None

23 = 10 cycles, +25°C

24 = 10 cycles,
-55°C & +85°C

For CWR p/n:

A = 10 cycles, +25°C

B = 10 cycles,
-55°C & +85°C

□ = Packaging:

For TAZ p/n:

B = Bulk

R = 7" T&R

S = 13" T&R

For CWR p/n:

Bulk = Standard

\TR = 7" T&R

\TR13 = 13" T&R

\W = Waffle

(1) V case size is only available as solder fused.

Surface Mount Military



CWR09 - MIL-PRF-55365/4 and TAZ COTS-Plus

AVX Part Number	QPL Part Number (for reference only)	DC rated voltage (85°C) (volts)	Cap (nom) μF	DC Leakage (max)			Dissipation Factor (max)			ESR (max) 100 kHz +25°C (Ohms)	Case Size
				+25°C (μA)	+85°C (μA)	+125°C (μA)	+25°C (%)	+85/125°C (%)	-55°C (%)		
TAZA224*035C□#@0^++	CWR09M^224*@+□	35	0.22	1.0	10	12	6	8	8	18.0	A
TAZB474*035C□#@0^++	CWR09M^474*@+□	35	0.47	1.0	10	12	6	8	8	10.0	B
TAZD105*035C□#@0^++	CWR09M^105*@+□	35	1.0	1.0	10	12	6	8	8	6.5	D
TAZE155*035C□#@0^++	CWR09M^155*@+□	35	1.5	1.0	10	12	6	8	8	4.5	E
TAZF335*035C□#@0^++	CWR09M^335*@+□	35	3.3	1.0	10	12	6	8	8	2.5	F
TAZG475*035C□#@0^++	CWR09M^475*@+□	35	4.7	2.0	20	24	6	8	8	1.5	G
TAZH685*035C□#@0^++	CWR09M^685*@+□	35	6.8	3.0	30	36	6	8	8	1.3	H
TAZH106*035C□#@0^++		35	10.0	4.0	40	48	8	10	10	0.9	H
TAZH106*035L□#@0^++		35	10.0	4.0	40	48	8	10	10	0.300	H
TAZA104*050C□#@0^++	CWR09N^104*@+□	50	0.10	1.0	10	12	6	8	8	22.0	A
TAZA154*050C□#@0^++	CWR09N^154*@+□	50	0.15	1.0	10	12	6	8	8	17.0	A
TAZB224*050C□#@0^++	CWR09N^224*@+□	50	0.22	1.0	10	12	6	8	8	14.0	B
TAZB334*050C□#@0^++	CWR09N^334*@+□	50	0.33	1.0	10	12	6	8	8	12.0	B
TAZD684*050C□#@0^++	CWR09N^684*@+□	50	0.68	1.0	10	12	6	8	8	7.0	D
TAZE105*050C□#@0^++	CWR09N^105*@+□	50	1.0	1.0	10	12	6	8	8	6.0	E
TAZF155*050C□#@0^++	CWR09N^155*@+□	50	1.5	1.0	10	12	6	8	8	4.0	F
TAZF225*050C□#@0^++	CWR09N^225*@+□	50	2.2	2.0	20	24	6	8	8	2.5	F
TAZG335*050C□#@0^++	CWR09N^335*@+□	50	3.3	2.0	20	24	6	8	8	2.0	G
TAZH475*050C□#@0^++	CWR09N^475*@+□	50	4.7	3.0	30	36	6	8	8	1.5	H

Following the voltage code, C designates Standard, L designates Low ESR Ratings

Part Number Designations

^ = Termination Finish:¹

For TAZ p/n:

9 = Gold Plated

8 = Hot Solder Dipped

0 = Solder Fused

For CWR p/n:

B = Gold Plated

C = Hot Solder Dipped

K = Solder Fused

= Inspection Level:

S = Std. Conformance

L = Optional Group A

For CWR p/n:

M = Military

Conformance per

MIL-PRF-55365

* = Tolerance:

M = ±20%

K = ±10%

J = ±5% (Special
order only)

@ = Failure Rate Level:

Weibull: B = 0.1%/1000 Hrs.

(90% C = 0.01%/1000 Hrs.

conf.)

Comm: Z = Non ER

+ = Surge Option:

For TAZ p/n:

00 = None

23 = 10 cycles, +25°C

24 = 10 cycles,

-55°C & +85°C

For CWR p/n:

A = 10 cycles, +25°C

B = 10 cycles,

-55°C & +85°C

□ = Packaging:

For TAZ p/n:

B = Bulk

R = 7" T&R

S = 13" T&R

For CWR p/n:

Bulk = Standard

\TR = 7" T&R

\TR13 = 13" T&R

\W = Waffle

(1) V case size is only available as solder fused.

ELECTRICAL RATINGS FOR CWR09 CAPACITORS

MIL-C-55365/4 Part Number (See Note)	Case Size★	Rated Voltage (85°C) (volts)	Capacitance (nom.) (μF)	DC Leakage (max.)			Dissipation Factor (max.)			Max. ESR 100 kHz +25°C Style CWR09 (Ohms)
				+25°C (μA)	+85°C (μA)	+125°C (μA)	+25°C (%)	+85/125°C (%)	-55°C (%)	
CWR09C*225†@Δ□	A	4	2.2	1.0	10	12	6	8	8	8.0
CWR09C*475†@Δ□	B	4	4.7	1.0	10	12	6	8	8	8.0
CWR09C*685†@Δ□	C	4	6.8	1.0	10	12	6	8	8	5.5
CWR09C*106†@Δ□	D	4	10.0	1.0	10	12	8	8	10	4.0
CWR09C*156†@Δ□	E	4	15.0	1.0	10	12	8	10	12	3.5
CWR09C*336†@Δ□	F	4	33.0	2.0	20	24	8	10	12	2.2
CWR09C*686†@Δ□	G	4	68.0	3.0	30	36	10	12	12	1.1
CWR09C*107†@Δ□	H	4	100.0	4.0	40	48	10	12	12	0.9
CWR09D*155†@Δ□	A	6	1.5	1.0	10	12	6	8	8	8.0
CWR09D*335†@Δ□	B	6	3.3	1.0	10	12	6	8	8	8.0
CWR09D*475†@Δ□	C	6	4.7	1.0	10	12	6	8	8	5.5
CWR09D*685†@Δ□	D	6	6.8	1.0	10	12	6	8	8	4.5
CWR09D*106†@Δ□	E	6	10.0	1.0	10	12	8	10	12	3.5
CWR09D*226†@Δ□	F	6	22.0	2.0	20	24	8	10	12	2.2
CWR09D*476†@Δ□	G	6	47.0	3.0	30	36	10	12	12	1.1
CWR09D*686†@Δ□	H	6	68.0	4.0	40	48	10	12	12	0.9
CWR09F*105†@Δ□	A	10	1.0	1.0	10	12	6	8	8	10.0
CWR09F*225†@Δ□	B	10	2.2	1.0	10	12	6	8	8	8.0
CWR09F*335†@Δ□	C	10	3.3	1.0	10	12	6	8	8	5.5
CWR09F*475†@Δ□	D	10	4.7	1.0	10	12	6	8	8	4.5
CWR09F*685†@Δ□	E	10	6.8	1.0	10	12	6	8	8	3.5
CWR09F*156†@Δ□	F	10	15.0	2.0	20	24	8	8	10	2.5
CWR09F*336†@Δ□	G	10	33.0	3.0	30	36	10	12	12	1.1
CWR09F*476†@Δ□	H	10	47.0	5.0	50	60	10	12	12	0.9
CWR09H*684†@Δ□	A	15	0.68	1.0	10	12	6	8	8	12.0
CWR09H*155†@Δ□	B	15	1.5	1.0	10	12	6	8	8	8.0
CWR09H*225†@Δ□	C	15	2.2	1.0	10	12	6	8	8	5.5
CWR09H*335†@Δ□	D	15	3.3	1.0	10	12	6	8	8	5.0
CWR09H*475†@Δ□	E	15	4.7	1.0	10	12	6	8	8	4.0
CWR09H*106†@Δ□	F	15	10.0	2.0	20	24	6	8	8	2.5
CWR09H*226†@Δ□	G	15	22.0	4.0	40	48	8	8	10	1.1
CWR09H*336†@Δ□	H	15	33.0	5.0	50	60	8	8	10	0.9
CWR09J*474†@Δ□	A	20	0.47	1.0	10	12	6	8	8	14.0
CWR09J*684†@Δ□	B	20	0.68	1.0	10	12	6	8	8	10.0
CWR09J*105†@Δ□	B	20	1.0	1.0	10	12	6	8	8	12.0
CWR09J*155†@Δ□	C	20	1.5	1.0	10	12	6	8	8	6.0
CWR09J*225†@Δ□	D	20	2.2	1.0	10	12	6	8	8	5.0
CWR09J*335†@Δ□	E	20	3.3	1.0	10	12	6	8	8	4.0
CWR09J*685†@Δ□	F	20	6.8	2.0	20	24	6	8	8	2.4
CWR09J*156†@Δ□	G	20	15.0	3.0	30	36	6	8	8	1.1
CWR09J*226†@Δ□	H	20	22.0	4.0	40	48	6	8	8	0.9

* = Termination Finish
 B = Gold Plated
 C = Hot Solder Dipped
 K = Solder Fused

† = Tolerance Code
 J = ±5%
 K = ±10%
 M = ±20%

@ = Failure Rate Level
 Exponential:
 M = 1.0% per 1000 hours
 P = 0.1% per 1000 hours
 R = 0.01% per 1000 hours
 S = 0.001% per 1000 hours
 Weibull:
 B = 0.1% per 1000 hours
 C = 0.01% per 1000 hours

Δ = Optional Surge Current
 A = 10 cycles at 25°C
 B = 10 cycles at -55°C
 and +85°C

□ = Packaging
 Bulk Standard
 \TR=7" Tape & Reel
 \TR13=13" Tape & Reel
 W=Waffle Pack

★ The C case has limited availability. Where possible D case should be substituted.

ELECTRICAL RATINGS FOR CWR09 CAPACITORS

MIL-C-55365/4 Part Number (See Note)	Case Size★	Rated Voltage (85°C) (volts)	Capacitance (nom.) (μF)	DC Leakage (max.)			Dissipation Factor (max.)			Max. ESR 100 kHz +25°C Style CWR09 (Ohms)
				+25°C (μA)	+85°C (μA)	+125°C (μA)	+25°C (%)	+85/125°C (%)	-55°C (%)	
CWR09K*334†@△□	A	25	0.33	1.0	10	12	6	8	8	15.0
CWR09K*684†@△□	B	25	0.68	1.0	10	12	6	8	8	7.5
CWR09K*105†@△□	C	25	1.0	1.0	10	12	6	8	8	6.5
CWR09K*155†@△□	D	25	1.5	1.0	10	12	6	8	8	6.5
CWR09K*225†@△□	E	25	2.2	1.0	10	12	6	8	8	3.5
CWR09K*475†@△□	F	25	4.7	2.0	20	24	6	8	8	2.5
CWR09K*685†@△□	G	25	6.8	2.0	20	24	6	8	8	1.2
CWR09K*106†@△□	G	25	10.0	3.0	30	36	6	8	8	1.4
CWR09K*156†@△□	H	25	15.0	4.0	40	48	6	8	8	1.0
CWR09M*224†@△□	A	35	0.22	1.0	10	12	6	8	8	18.0
CWR09M*474†@△□	B	35	0.47	1.0	10	12	6	8	8	10.0
CWR09M*684†@△□	C	35	0.68	1.0	10	12	6	8	8	8.0
CWR09M*105†@△□	D	35	1.0	1.0	10	12	6	8	8	6.5
CWR09M*155†@△□	E	35	1.5	1.0	10	12	6	8	8	4.5
CWR09M*335†@△□	F	35	3.3	1.0	10	12	6	8	8	2.5
CWR09M*475†@△□	G	35	4.7	2.0	20	24	6	8	8	1.5
CWR09M*685†@△□	H	35	6.8	3.0	30	36	6	8	8	1.3
CWR09N*104†@△□	A	50	0.10	1.0	10	12	6	8	8	22.0
CWR09N*154†@△□	A	50	0.15	1.0	10	12	6	8	8	17.0
CWR09N*224†@△□	B	50	0.22	1.0	10	12	6	8	8	14.0
CWR09N*334†@△□	B	50	0.33	1.0	10	12	6	8	8	12.0
CWR09N*474†@△□	C	50	0.47	1.0	10	12	6	8	8	8.0
CWR09N*684†@△□	D	50	0.68	1.0	10	12	6	8	8	7.0
CWR09N*105†@△□	E	50	1.0	1.0	10	12	6	8	8	6.0
CWR09N*155†@△□	F	50	1.5	1.0	10	12	6	8	8	4.0
CWR09N*225†@△□	F	50	2.2	2.0	20	24	6	8	8	2.5
CWR09N*335†@△□	G	50	3.3	2.0	20	24	6	8	8	2.0
CWR09N*475†@△□	H	50	4.7	3.0	30	36	6	8	8	1.5

NOTE: To complete the MIL-C-55365/4 Part Number, additional information must be added:

Contact your local AVX sales office for latest qualification status.

* = Termination Finish
B = Gold Plated
C = Hot Solder Dipped
K = Solder Fused

† = Tolerance Code
J = ±5%
K = ±10%
M = ±20%

@ = Failure Rate Level
Exponential:
M = 1.0% per 1000 hours
P = 0.1% per 1000 hours
R = 0.01% per 1000 hours
S = 0.001% per 1000 hours

Weibull:
B = 0.1% per 1000 hours
C = 0.01% per 1000 hours

△ = Optional Surge Current
A = 10 cycles at 25°C
B = 10 cycles at -55°C
and +85°C

□ = Packaging
Bulk Standard
1TR=7" Tape & Reel
1TR13=13" Tape & Reel
1W=Waffle Pack

★ The C case has limited availability. Where possible D case should be substituted.