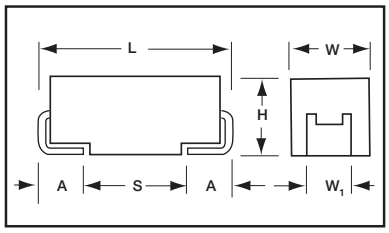
TBJ Series

CWR11 - MIL-PRF-55365/8 Established Reliability, COTS-Plus & Space Level



MARKING

(Brown marking on gold body)

Polarity Stripe (+)

"J" for "JAN" Brand
Capacitance Code

Rated Voltage
Manufacturer's ID

Fully qualified to MIL-PRF-55365/8, the CWR11 is the military version of EIA-535BAAC, with four case sizes designed for maximum packaging efficiency on 8mm & 12mm tape for high volume production (ensuring no TCE mismatch with any substrate). This construction is compatible with a wide range of SMT board assembly processes including wave or reflow solder, conductive epoxy or compression bonding techniques. The part also carries full polarity, capacitance / voltage and JAN brand marking.

The series is qualified to MIL-PRF-55365 Weibull "B", "C", "D" and "T" levels, with all surge options ("A", "B" & "C") available.

For Space Level applications, AVX SRC9000 qualification is recommended (see ratings table for part number availability).

There are four termination finishes available: solder plated, fused solder plated, hot solder dipped and gold plated (these are "H", "K", "C" and "B" termination, respectively, per MIL-PRF-55365).

The molding compound has been selected to meet the requirements of UL94V-0 (Flame Retardancy) and outgassing requirements of NASA SP-R-0022A.

CASE DIMENSIONS: millimeters (inches)

Case Code	EIA Metric	Length (L)	Width (W)	Height (H)	Term. Width (W_1) ±0.10 (±0.004)	Term. Length A ±0.30(±0.012)	S min
A	3216-18	3.20±0.20 (0.126±0.008)	1.60±0.20 (0.063±0.008)	1.60±0.20 (0.063±0.008)	1.20 (0.047)	0.80 (0.031)	1.80 (0.071)
B	3528-21	3.50±0.20 (0.138±0.008)	2.80±0.20 (0.110±0.008)	1.90±0.20 (0.075±0.008)	2.20 (0.087)	0.80 (0.031)	1.40 (0.055)
C	6032-28	6.00±0.30 (0.236±0.012)	3.20±0.30 (0.126±0.012)	2.50±0.30 (0.098±0.012)	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
D	7343-31	7.30±0.30 (0.287±0.012)	4.30±0.30 (0.169±0.012)	2.80±0.30 (0.110±0.012)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)

CAPACITANCE AND RATED VOLTAGE, V_R (MIL VOLTAGE CODE) RANGE CASE SIZE

Capacitance		Rated voltage DC (V_R) to 85ºC							
µF	Code	4V (C)	6V (D)	10V (F)	15V (H)	20V (J)	25V (K)	35V (M)	50V (N)
0.10	104							A	A
0.15	154							A	B
0.22	224							A	B
0.33	334						A	A	B
0.47	474					A	A	B	C
0.68	684				A	A	B	B	C
1.0	105			A	A	A	B	B	C
1.5	155		A	A	A	B	B	C	D
2.2	225	A	A	A	B	B	C	C	D
3.3	335		A	B	B	B	C	C	D
4.7	475	A	B	B	B	C	C	D	D
6.8	685	B	B	B		C	D	D	
10	106	B	B		C		D		
15	156	B	C	C		D	D		
22	226		C		D	D			
33	336	C		D	D				
47	476		D	D					
68	686	D	D						
100	107	D							
150	157								
220	227								
330	337								

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HOW TO ORDER

COTS-PLUS & MIL QPL (CWR11):

TBJ	D	686	*	006	C	□	#	@	0	^	++
Type	**Case Size**	**Capacitance Code** pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)	**Capacitance Tolerance** M = ±20% K = ±10% J = ±5%	**Voltage Code** 004 = 4Vdc 006 = 6Vdc 010 = 10Vdc 015 = 15Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc 050 = 50Vdc	**Standard or Low ESR Range** C = Std ESR L = Low ESR	**Packaging** B = Bulk R = 7" T&R S = 13" T&R W = Waffle See page 6 for additional packaging options.	**Inspection Level** S = Std. Conformance L = Group A M = MIL (JAN) CWR11	**Reliability Grade** Weibull: B = 0.1%/1000 hrs. 90% conf. C = 0.01%/1000 hrs. 90% conf. D = 0.001%/1000 hrs. 90% conf. T = T Level Z = Non-ER	**Qualification Level** 0 = N/A 9 = SRC9000	**Termination Finish** H = Solder Plated 0 = Fused Solder Plated 8 = Hot Solder Dipped 9 = Gold Plated 7 = Matte Sn (COTS-Plus only)	**Surge Test Option** 00 = None 23 = 10 Cycles, +25°C 24 = 10 Cycles, -55°C & +85°C 45 = 10 cycles, -55°C & +85°C before Weibull

Not RoHS Compliant

LEAD-FREE
LEAD-FREE COMPATIBLE COMPONENT

RoHS COMPLIANT

For RoHS compliant products, please select correct termination style.

CWR11 P/N CROSS REFERENCE:

CWR11	D	^	686	*	@	+	□
Type	**Voltage Code** C = 4Vdc D = 6Vdc F = 10Vdc H = 15Vdc J = 20Vdc K = 25Vdc M = 35Vdc N = 50Vdc	**Termination Finish** H = Solder Plated K = Solder Fused C = Hot Solder Dipped B = Gold Plated	**Capacitance Code** pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)	**Capacitance Tolerance** M = ±20% K = ±10% J = ±5%	**Reliability Grade** Weibull: B = 0.1%/1000 hrs. 90% conf. C = 0.01%/1000 hrs. 90% conf. D = 0.001%/1000 hrs. 90% conf. T = T Level A = Non-ER	**Surge Test Option** A = 10 cycles, +25°C B = 10 cycles, -55°C & +85°C C = 10 cycles, -55°C & +85°C before Weibull If blank, None required	**Packaging** Bulk = Standard \TR = 7" T&R \TR13 = 13" T&R \W = Waffle See page 6 for additional packaging options.

Not RoHS Compliant

SPACE LEVEL OPTIONS TO SRC9000*:

TBJ	D	686	*	006	C	□	L	@	9	^	++
Type	**Case Size**	**Capacitance Code** pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)	**Capacitance Tolerance** M = ±20% K = ±10% J = ±5%	**Voltage Code** 004 = 4Vdc 006 = 6Vdc 010 = 10Vdc 015 = 15Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc 050 = 50Vdc	**Standard or Low ESR Range** C = Std ESR L = Low ESR	**Packaging** B = Bulk R = 7" T&R S = 13" T&R W = Waffle See page 6 for additional packaging options.	**Inspection Level** L = Group A	**Reliability Grade** Weibull: B = 0.1%/1000 hrs. 90% conf. C = 0.01%/1000 hrs. 90% conf. D = 0.001%/1000 hrs. 90% conf.	**Qualification Level** 9 = SRC9000	**Termination Finish** H = Solder Plated 0 = Fused Solder Plated 8 = Hot Solder Dipped 9 = Gold Plated	**Surge Test Option** 45 = 10 cycles, -55°C & +85°C before Weibull

Not RoHS Compliant

*Contact factory for AVX SRC9000 Space Level SCD details.

TECHNICAL SPECIFICATIONS

Technical Data:		Unless otherwise specified, all technical data relate to an ambient temperature of 25°C							
Capacitance Range:		0.1 µF to 100 µF							
Capacitance Tolerance:		±5%; ±10%; ±20%							
Rated Voltage: (V_R)	≤85°C:	4	6	10	16	20	25	35	50
Category Voltage: (V_C)	125°C:	2.7	4	6.7	10	13.3	16.7	23.3	33.3
Surge Voltage: (V_S)	≤85°C:	5.3	8	13.3	20	26.7	33.3	46.7	66.7
	125°C:	3.5	5.3	8.7	13.3	17.8	22.2	31.1	44.5
Temperature Range:		-55°C to +125°C							

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RATING & PART NUMBER REFERENCE

				Parametric Specifications by Rating per MIL-PRF-55365/8										Typical Ripple Data by Rating						
				Cap @ 120Hz	DC Rated Voltage	ESR @ 100kHz	DCL max			DF Max			Power Dissipation	25°C Ripple	85°C Ripple	125°C Ripple	25°C Ripple	85°C Ripple	125°C Ripple
							+25°C	+85°C	+125°C	+25°C	+(85/125)°C	-55°C							
CWR11 P/N	AVX COTS-Plus P/N	AVX SRC9000 P/N	Case	µF @ 25°C	V @ +85°C	Ohms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)	A (100kHz)	A (100kHz)	V (100kHz)	V (100kHz)	V (100kHz)
CWR11C^225*@+□	TBJA 225 * 004 C □ # @ 0 ^ ++	TBJ A 225 * 004 C □ L @ 0 ^ ++	A	2.2	4	8	0.5	5	6	6	9	9	0.075	0.10	0.09	0.04	0.77	0.70	0.31
CWR11C^475*@+□	TBJ A 475 * 004 C □ # @ 0 ^ ++	TBJ A 475 * 004 C □ L @ 0 ^ ++	A	4.7	4	8	0.5	5	6	6	9	9	0.075	0.10	0.09	0.04	0.77	0.70	0.31
CWR11C^685*@+□	TBJ B 685 * 004 C □ # @ 0 ^ ++	TBJ B 685 * 004 C □ L @ 9 ^ ++	B	6.8	4	5.5	0.5	5	6	6	9	9	0.085	0.12	0.11	0.05	0.68	0.62	0.27
CWR11C^106*@+□	TBJ B 106 * 004 C □ # @ 0 ^ ++	TBJ B 106 * 004 C □ L @ 9 ^ ++	B	10	4	4	0.5	5	6	6	9	9	0.085	0.15	0.13	0.06	0.58	0.52	0.23
CWR11C^156*@+□	TBJ B 156 * 004 C □ # @ 0 ^ ++	TBJ B 156 * 004 C □ L @ 9 ^ ++	B	15	4	3.5	0.6	6	7.2	6	9	9	0.085	0.16	0.14	0.06	0.55	0.49	0.22
CWR11C^336*@+□	TBJ C 336 * 004 C □ # @ 0 ^ ++	TBJ C 336 * 004 C □ L @ 9 ^ ++	C	33	4	2.2	1.3	13	15.6	6	9	9	0.110	0.22	0.20	0.09	0.49	0.44	0.20
CWR11C^686*@+□	TBJ D 686 * 004 C □ # @ 0 ^ ++	TBJ D 686 * 004 C □ L @ 9 ^ ++	D	68	4	1.1	2.7	27	32.4	6	9	9	0.150	0.37	0.33	0.15	0.41	0.37	0.16
CWR11C^107*@+□	TBJ D 107 * 004 C □ # @ 0 ^ ++	TBJ D 107 * 004 C □ L @ 9 ^ ++	D	100	4	0.9	4	40	48	8	12	12	0.150	0.41	0.37	0.16	0.37	0.33	0.15
CWR11D^155*@+□	TBJ A 155 * 006 C □ # @ 0 ^ ++	TBJ A 155 * 006 C □ L @ 9 ^ ++	A	1.5	6	8	0.5	5	6	6	9	9	0.075	0.10	0.09	0.04	0.77	0.70	0.31
CWR11D^225*@+□	TBJ A 225 * 006 C □ # @ 0 ^ ++	TBJ A 225 * 006 C □ L @ 9 ^ ++	A	2.2	6	8	0.5	5	6	6	6	9	0.075	0.10	0.09	0.04	0.77	0.70	0.31
CWR11D^335*@+□	TBJ A 335 * 006 C □ # @ 0 ^ ++	TBJ A 335 * 006 C □ L @ 9 ^ ++	A	3.3	6	8	0.5	5	6	6	9	9	0.075	0.10	0.09	0.04	0.77	0.70	0.31
CWR11D^475*@+□	TBJ B 475 * 006 C □ # @ 0 ^ ++	TBJ B 475 * 006 C □ L @ 9 ^ ++	B	4.7	6	5.5	0.5	5	6	6	9	9	0.085	0.12	0.11	0.05	0.68	0.62	0.27
CWR11D^685*@+□	TBJ B 685 * 006 C □ # @ 0 ^ ++	TBJ B 685 * 006 C □ L @ 9 ^ ++	B	6.8	6	4.5	0.5	5	6	6	9	9	0.085	0.14	0.12	0.05	0.62	0.56	0.25
CWR11D^106*@+□	TBJ B 106 * 006 C □ # @ 0 ^ ++	TBJ B 106 * 006 C □ L @ 9 ^ ++	B	10	6	3.5	0.6	6	7.2	6	9	9	0.085	0.16	0.14	0.06	0.55	0.49	0.22
CWR11D^156*@+□	TBJ C 156 * 006 C □ # @ 0 ^ ++	TBJ C 156 * 006 C □ L @ 9 ^ ++	C	15	6	3	0.9	9	10.8	6	9	9	0.110	0.19	0.17	0.08	0.57	0.52	0.23
CWR11D^226*@+□	TBJ C 226 * 006 C □ # @ 0 ^ ++	TBJ C 226 * 006 C □ L @ 9 ^ ++	C	22	6	2.2	1.4	14	16.8	6	9	9	0.110	0.22	0.20	0.09	0.49	0.44	0.20
CWR11D^476*@+□	TBJ D 476 * 006 C □ # @ 0 ^ ++	TBJ D 476 * 006 C □ L @ 9 ^ ++	D	47	6	1.1	2.8	28	33.6	6	9	9	0.150	0.37	0.33	0.15	0.41	0.37	0.16
CWR11D^686*@+□	TBJ D 686 * 006 C □ # @ 0 ^ ++	TBJ D 686 * 006 C □ L @ 9 ^ ++	D	68	6	0.9	4.3	43	51.6	6	9	9	0.150	0.41	0.37	0.16	0.37	0.33	0.15
CWR11F^105*@+□	TBJ A 105 * 010 C □ # @ 0 ^ ++	TBJ A 105 * 010 C □ L @ 9 ^ ++	A	1	10	10	0.5	5	6	4	6	6	0.075	0.09	0.08	0.03	0.87	0.78	0.35
CWR11F^155*@+□	TBJ A 155 * 010 C □ # @ 0 ^ ++	TBJ A 155 * 010 C □ L @ 9 ^ ++	A	1.5	10	8	0.5	5	6	6	6	9	0.075	0.10	0.09	0.04	0.77	0.70	0.31
CWR11F^225*@+□	TBJ A 225 * 010 C □ # @ 0 ^ ++	TBJ A 225 * 010 C □ L @ 9 ^ ++	A	2.2	10	8	0.5	5	6	6	9	9	0.075	0.10	0.09	0.04	0.77	0.70	0.31
CWR11F^335*@+□	TBJ B 335 * 010 C □ # @ 0 ^ ++	TBJ B 335 * 010 C □ L @ 9 ^ ++	B	3.3	10	5.5	0.5	5	6	6	9	9	0.085	0.12	0.11	0.05	0.68	0.62	0.27
CWR11F^475*@+□	TBJ B 475 * 010 C □ # @ 0 ^ ++	TBJ B 475 * 010 C □ L @ 9 ^ ++	B	4.7	10	4.5	0.5	5	6	6	9	9	0.085	0.14	0.12	0.05	0.62	0.56	0.25
CWR11F^685*@+□	TBJ B 685 * 010 C □ # @ 0 ^ ++	TBJ B 685 * 010 C □ L @ 9 ^ ++	B	6.8	10	3.5	0.7	7	8.4	6	9	9	0.085	0.16	0.14	0.06	0.55	0.49	0.22
CWR11F^156*@+□	TBJ C 156 * 010 C □ # @ 0 ^ ++	TBJ C 156 * 010 C □ L @ 9 ^ ++	C	15	10	2.5	1.5	15	18	6	6	9	0.110	0.21	0.19	0.08	0.52	0.47	0.21
CWR11F^336*@+□	TBJ D 336 * 010 C □ # @ 0 ^ ++	TBJ D 336 * 010 C □ L @ 9 ^ ++	D	33	10	1.1	3.3	33	39.6	6	9	9	0.150	0.37	0.33	0.15	0.41	0.37	0.16
CWR11F^476*@+□	TBJ D 476 * 010 C □ # @ 0 ^ ++	TBJ D 476 * 010 C □ L @ 9 ^ ++	D	47	10	0.9	4.7	47	56.4	6	9	9	0.150	0.41	0.37	0.16	0.37	0.33	0.15
CWR11H^684*@+□	TBJ A 684 * 015 C □ # @ 0 ^ ++	TBJ A 684 * 015 C □ L @ 9 ^ ++	A	0.68	15	12	0.5	5	6	4	6	6	0.075	0.08	0.07	0.03	0.95	0.85	0.38
CWR11H^105*@+□	TBJ A 105 * 015 C □ # @ 0 ^ ++	TBJ A 105 * 015 C □ L @ 9 ^ ++	A	1	15	10	0.5	5	6	4	6	6	0.075	0.09	0.08	0.03	0.87	0.78	0.35
CWR11H^155*@+□	TBJ A 155 * 015 C □ # @ 0 ^ ++	TBJ A 155 * 015 C □ L @ 9 ^ ++	A	1.5	15	8	0.5	5	6	6	9	9	0.075	0.10	0.09	0.04	0.77	0.70	0.31
CWR11H^225*@+□	TBJ B 225 * 015 C □ # @ 0 ^ ++	TBJ B 225 * 015 C □ L @ 9 ^ ++	B	2.2	15	5.5	0.5	5	6	6	9	9	0.085	0.12	0.11	0.05	0.68	0.62	0.27
CWR11H^335*@+□	TBJ B 335 * 015 C □ # @ 0 ^ ++	TBJ B 335 * 015 C □ L @ 9 ^ ++	B	3.3	15	5	0.5	5	6	6	8	9	0.085	0.13	0.12	0.05	0.65	0.59	0.26
CWR11H^475*@+□	TBJ B 475 * 015 C □ # @ 0 ^ ++	TBJ B 475 * 015 C □ L @ 9 ^ ++	B	4.7	15	4	0.7	7	8.4	6	9	9	0.085	0.15	0.13	0.06	0.58	0.52	0.23
CWR11H^106*@+□	TBJ C 106 * 015 C □ # @ 0 ^ ++	TBJ C 106 * 015 C □ L @ 9 ^ ++	C	10	15	2.5	1.6	16	19.2	6	8	9	0.110	0.21	0.19	0.08	0.52	0.47	0.21
CWR11H^226*@+□	TBJ D 226 * 015 C □ # @ 0 ^ ++	TBJ D 226 * 015 C □ L @ 9 ^ ++	D	22	15	1.1	3.3	33	39.6	6	8	9	0.150	0.37	0.33	0.15	0.41	0.37	0.16
CWR11H^336*@+□	TBJ D 336 * 015 C □ # @ 0 ^ ++	TBJ D 336 * 015 C □ L @ 9 ^ ++	D	33	15	0.9	5.3	53	63.6	6	9	9	0.150	0.41	0.37	0.16	0.37	0.33	0.15
CWR11J^474*@+□	TBJ A 474 * 020 C □ # @ 0 ^ ++	TBJ A 474 * 020 C □ L @ 9 ^ ++	A	0.47	20	14	0.5	5	6	4	6	6	0.075	0.07	0.07	0.03	1.02	0.92	0.41
CWR11J^684*@+□	TBJ A 684 * 020 C □ # @ 0 ^ ++	TBJ A 684 * 020 C □ L @ 9 ^ ++	A	0.68	20	12	0.5	5	6	4	6	6	0.075	0.08	0.07	0.03	0.95	0.85	0.38
CWR11J^105*@+□	TBJ A 105 * 020 C □ # @ 0 ^ ++	TBJ A 105 * 020 C □ L @ 9 ^ ++	A	1	20	10	0.5	5	6	4	6	6	0.075	0.09	0.08	0.03	0.87	0.78	0.35
CWR11J^155*@+□	TBJ B 155 * 020 C □ # @ 0 ^ ++	TBJ B 155 * 020 C □ L @ 9 ^ ++	B	1.5	20	6	0.5	5	6	6	9	9	0.085	0.12	0.11	0.05	0.71	0.64	0.29
CWR11J^225*@+□	TBJ B 225 * 020 C □ # @ 0 ^ ++	TBJ B 225 * 020 C □ L @ 9 ^ ++	B	2.2	20	5	0.5	5	6	6	8	9	0.085	0.13	0.12	0.05	0.65	0.59	0.26
CWR11J^335*@+□	TBJ B 335 * 020 C □ # @ 0 ^ ++	TBJ B 335 * 020 C □ L @ 9 ^ ++	B	3.3	20	4	0.7	7	8.4	6	9	9	0.085	0.15	0.13	0.06	0.58	0.52	0.23
CWR11J^475*@+□	TBJ C 475 * 020 C □ # @ 0 ^ ++	TBJ C 475 * 020 C □ L @ 9 ^ ++	C	4.7	20	3	1	10	12	6	8	9	0.110	0.19	0.17	0.08	0.57	0.52	0.23
CWR11J^685*@+□	TBJ C 685 * 020 C □ # @ 0 ^ ++	TBJ C 685 * 020 C □ L @ 9 ^ ++	C	6.8	20	2.4	1.4	14	16.8	6	9	9	0.110	0.21	0.19	0.09	0.51	0.46	0.21
CWR11J^156*@+□	TBJ D 156 * 020 C □ # @ 0 ^ ++	TBJ D 156 * 020 C □ L @ 9 ^ ++	D	15	20	1.1	3	30	36	6	8	9	0.150	0.37	0.33	0.15	0.41	0.37	0.16
CWR11J^226*@+□	TBJ D 226 * 020 C □ # @ 0 ^ ++	TBJ D 226 * 020 C □ L @ 9 ^ ++	D	22	20	0.9	4.4	44	52.8	6	9	9	0.150	0.41	0.37	0.16	0.37	0.33	0.15
CWR11K^334*@+□	TBJ A 334 * 025 C □ # @ 0 ^ ++	TBJ A 334 * 025 C □ L @ 9 ^ ++	A	0.33	25	15	0.5	5	6	4	6	6	0.075	0.07	0.06	0.03	1.06	0.95	0.42
CWR11K^474*@+□	TBJ A 474 * 025 C □ # @ 0 ^ ++	TBJ A 474 * 025 C □ L @ 9 ^ ++	A	0.47	25	14	0.5	5	6	4	6	6	0.075	0.07	0.07	0.03	1.02	0.92	0.41
CWR11K^684*@+□	TBJ B 684 * 025 C □ # @ 0 ^ ++	TBJ B 684 * 025 C □ L @ 9 ^ ++	B	0.68	25	7.5	0.5	5	6	4	6	6	0.085	0.11	0.10	0.04	0.80	0.72	0.32
CWR11K^105*@+□	TBJ B 105 * 025 C □ # @ 0 ^ ++	TBJ B 105 * 025 C □ L @ 9 ^ ++	B	1	25	6.5	0.5	5	6	4	6	6	0.085	0.11	0.10	0.05	0.74	0.67	0.30
CWR11K^155*@+□	TBJ B 155 * 025 C □ # @ 0 ^ ++	TBJ B 155 * 025 C □ L @ 9 ^ ++	B	1.5	25	6.5	0.5	5	6	6	8	9	0.085	0.11	0.10	0.05	0.74	0.67	0.30
CWR11K^225*@+□	TBJ C 225 * 025 C □ # @ 0 ^ ++	TBJ C 225 * 025 C □ L @ 9 ^ ++	C	2.2	25	3.5	0.6	6	7.2	6	9	9	0.110	0.18	0.16	0.07	0.62	0.56	0.25
CWR11K^335*@+□	TBJ C 335 * 025 C □ # @ 0 ^ ++	TBJ C 335 * 025 C □ L @ 9 ^ ++	C	3.3	25	3.5	0.9	9	10.8	6	8	9	0.110	0.18	0.16	0.07	0.62	0.56	0.25
CWR11K^475*@+□	TBJ C 475 * 025 C □ # @ 0 ^ ++	TBJ C 475 * 025 C □ L @ 9 ^ ++	C	4.7	25	2.5	1.2	12	14.4	6	9	9	0.110	0.21	0.19	0.08	0.52	0.47	0.21
CWR11K^685*@+□	TBJ D 685 * 025 C □ # @ 0 ^ ++	TBJ D 685 * 025 C □ L @ 9 ^ ++	D	6.8	25	1.4	1.7	17	20.4	6	9	9	0.150	0.33	0.29	0.13	0.46	0.41	0.18

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.

CWR11 - MIL-PRF-55365/8 Established Reliability, COTS-Plus & Space Level

RATING & PART NUMBER REFERENCE

				Parametric Specifications by Rating per MIL-PRF-55365/8										Typical Ripple Data by Rating						
				Cap	DC Rated	ESR @	DCL max			DF Max			Power	25°C	85°C	125°C	25°C	85°C	125°C
				@ 120Hz	Voltage	100kHz	+25°C	+85°C	+125°C	+25°C	+(85/125)°C	-55°C	Dissipation	Ripple	Ripple	Ripple	Ripple	Ripple	Ripple
CWR11 P/N	AVX COTS-Plus P/N	AVX SRC9000 P/N	Case	µF @ 25°C	V @ +85°C	Ohms @ +25°C	(µA)	(µA)	(µA)	(%)	(%)	(%)	W	A (100kHz)	A (100kHz)	A (100kHz)	V (100kHz)	V (100kHz)	V (100kHz)
CWR11K^106*@+□	TBJ D 106 * 025 C □ # @ 0 ^ ++	TBJ D 106 * 025 C □ L @ 9 ^ ++	D	10	25	1.2	2.5	25	30	6	8	9	0.150	0.35	0.32	0.14	0.42	0.38	0.17
CWR11K^156*@+□	TBJ D 156 * 025 C □ # @ 0 ^ ++	TBJ D 156 * 025 C □ L @ 9 ^ ++	D	15	25	1	3.8	38	45.6	6	9	9	0.150	0.39	0.35	0.15	0.39	0.35	0.15
CWR11M^104*@+□	TBJ A 104 * 035 C □ # @ 0 ^ ++	TBJ A 104 * 035 C □ L @ 9 ^ ++	A	0.1	35	24	0.5	5	6	4	6	6	0.075	0.06	0.05	0.02	1.34	1.21	0.54
CWR11M^154*@+□	TBJ A 154 * 035 C □ # @ 0 ^ ++	TBJ A 154 * 035 C □ L @ 9 ^ ++	A	0.15	35	21	0.5	5	6	4	6	6	0.075	0.06	0.05	0.02	1.25	1.13	0.50
CWR11M^224*@+□	TBJ A 224 * 035 C □ # @ 0 ^ ++	TBJ A 224 * 035 C □ L @ 9 ^ ++	A	0.22	35	18	0.5	5	6	4	6	6	0.075	0.06	0.06	0.03	1.16	1.05	0.46
CWR11M^334*@+□	TBJ A 334 * 035 C □ # @ 0 ^ ++	TBJ A 334 * 035 C □ L @ 9 ^ ++	A	0.33	35	15	0.5	5	6	4	6	6	0.075	0.07	0.06	0.03	1.06	0.95	0.42
CWR11M^474*@+□	TBJ B 474 * 035 C □ # @ 0 ^ ++	TBJ B 474 * 035 C □ L @ 9 ^ ++	B	0.47	35	10	0.5	5	6	4	6	6	0.085	0.09	0.08	0.04	0.92	0.83	0.37
CWR11M^684*@+□	TBJ B 684 * 035 C □ # @ 0 ^ ++	TBJ B 684 * 035 C □ L @ 9 ^ ++	B	0.68	35	8	0.5	5	6	4	6	6	0.085	0.10	0.09	0.04	0.82	0.74	0.33
CWR11M^105*@+□	TBJ B 105 * 035 C □ # @ 0 ^ ++	TBJ B 105 * 035 C □ L @ 9 ^ ++	B	1	35	6.5	0.5	5	6	4	6	6	0.085	0.11	0.10	0.05	0.74	0.67	0.30
CWR11M^155*@+□	TBJ C 155 * 035 C □ # @ 0 ^ ++	TBJ C 155 * 035 C □ L @ 9 ^ ++	C	1.5	35	4.5	0.5	5	6	6	8	9	0.110	0.16	0.14	0.06	0.70	0.63	0.28
CWR11M^225*@+□	TBJ C 225 * 035 C □ # @ 0 ^ ++	TBJ C 225 * 035 C □ L @ 9 ^ ++	C	2.2	35	3.5	0.8	8	9.6	6	8	9	0.110	0.18	0.16	0.07	0.62	0.56	0.25
CWR11M^335*@+□	TBJ C 335 * 035 C □ # @ 0 ^ ++	TBJ C 335 * 035 C □ L @ 9 ^ ++	C	3.3	35	2.5	1.2	12	14.4	6	8	9	0.110	0.21	0.19	0.08	0.52	0.47	0.21
CWR11M^475*@+□	TBJ D 475 * 035 C □ # @ 0 ^ ++	TBJ D 475 * 035 C □ L @ 9 ^ ++	D	4.7	35	1.5	1.7	17	20.4	6	8	9	0.150	0.32	0.28	0.13	0.47	0.43	0.19
CWR11M^685*@+□	TBJ D 685 * 035 C □ # @ 0 ^ ++	TBJ D 685 * 035 C □ L @ 9 ^ ++	D	6.8	35	1.3	2.4	24	28.8	6	9	9	0.150	0.34	0.31	0.14	0.44	0.40	0.18
CWR11N^104*@+□	TBJ A 104 * 050 C □ # @ 0 ^ ++	TBJ A 104 * 050 C □ L @ 9 ^ ++	A	0.1	50	22	0.5	5	12	6	8	8	0.075	0.06	0.05	0.02	1.28	1.16	0.51
CWR11N^154*@+□	TBJ B 154 * 050 C □ # @ 0 ^ ++	TBJ B 154 * 050 C □ L @ 9 ^ ++	B	0.15	50	17	0.5	5	6	4	6	6	0.085	0.07	0.06	0.03	1.20	1.08	0.48
CWR11N^224*@+□	TBJ B 224 * 050 C □ # @ 0 ^ ++	TBJ B 224 * 050 C □ L @ 9 ^ ++	B	0.22	50	14	0.5	5	6	4	6	6	0.085	0.08	0.07	0.03	1.09	0.98	0.44
CWR11N^334*@+□	TBJ B 334 * 050 C □ # @ 0 ^ ++	TBJ B 334 * 050 C □ L @ 9 ^ ++	B	0.33	50	12	0.5	5	6	4	6	6	0.085	0.08	0.08	0.03	1.01	0.91	0.40
CWR11N^474*@+□	TBJ C 474 * 050 C □ # @ 0 ^ ++	TBJ C 474 * 050 C □ L @ 9 ^ ++	C	0.47	50	8	0.5	5	6	4	6	6	0.110	0.12	0.11	0.05	0.94	0.84	0.38
CWR11N^684*@+□	TBJ C 684 * 050 C □ # @ 0 ^ ++	TBJ C 684 * 050 C □ L @ 9 ^ ++	C	0.68	50	7	0.5	5	6	4	6	6	0.110	0.13	0.11	0.05	0.88	0.79	0.35
CWR11N^105*@+□	TBJ C 105 * 050 C □ # @ 0 ^ ++	TBJ C 105 * 050 C □ L @ 9 ^ ++	C	1	50	6	0.5	5	6	4	6	6	0.110	0.14	0.12	0.05	0.81	0.73	0.32
CWR11N^155*@+□	TBJ D 155 * 050 C □ # @ 0 ^ ++	TBJ D 155 * 050 C □ L @ 9 ^ ++	D	1.5	50	4	0.8	8	9.6	6	8	9	0.150	0.19	0.17	0.08	0.77	0.70	0.31
CWR11N^225*@+□	TBJ D 225 * 050 C □ # @ 0 ^ ++	TBJ D 225 * 050 C □ L @ 9 ^ ++	D	2.2	50	2.5	1.1	11	13.2	6	8	9	0.150	0.24	0.22	0.10	0.61	0.55	0.24
CWR11N^335*@+□	TBJ D 335 * 050 C □ # @ 0 ^ ++	TBJ D 335 * 050 C □ L @ 9 ^ ++	D	3.3	50	2	1.7	17	20.4	6	9	9	0.150	0.27	0.25	0.11	0.55	0.49	0.22
CWR11N^475*@+□	TBJ D 475 * 050 C □ # @ 0 ^ ++	TBJ D 475 * 050 C □ L @ 9 ^ ++	D	4.7	50	1.5	2.4	24	28.8	6	9	9	0.150	0.32	0.28	0.13	0.47	0.43	0.19

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