ATC 700 A Capacitance Values

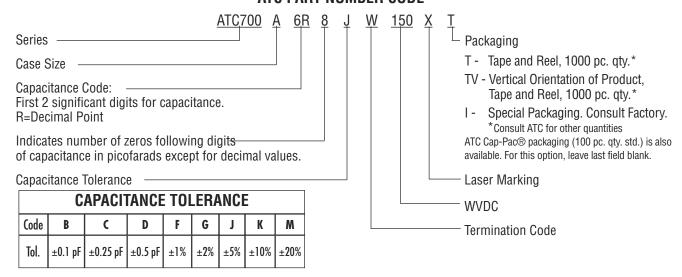
CAP.	CAP.	TOL.	RATED	WVDC	CAP.	CAP.	TOL.	RATED	WVDC	CAP.	CAP.	TOL.	RATED	WVDC		CAP.	TOL.	RATED	WVDC
CODE	(pF)	IUL.	STD.	EXT.	CODE	(pF)	IUL.	STD.	EXT.	CODE	(pF)	IUL.	STD.	EXT.	CODE	(pF)	IUL.	STD.	EXT.
0R1	0.1	В			2R4	2.4				200	20				151	150			
OR2	0.2			la.	2R7 3R0	2.7		li i	220				la i	161	160				
OR3	0.3	B, C		AG		3.0			VOLTAGE	240	24			VOLTAGE	181	180			
0R4	0.4	, -		VOLTAGE	3R3					270	27				201	200			
OR5	0.5				3R6	3.6				300	30				221	220			
0R6	0.6			DED	3R9	3.9 B, C,		DED	330	33			250	241	240				
OR7	0.7			EXTENDED	4R3	4.3	ט	D	EXTENDED	360	36 39			EXTENDED	271	270			
OR8 OR9	0.8 0.9			EXI	4R7 5R1	4.7		EXT	390 430	39 43			ENI	301 331	300 330		150		
1R0	1.0				5R6	5.1 5.6		150	250	470	43 47	F, G, J,	' 150	39	361	360	F, G, J, K, M	150	N/A
1R1	1.1				6R2	6.2				510	51				391	390			
1R2	1.2	B, C,	150	250	6R8	6.8				560	56	K, M			431	430			
1R3	1.3	D			7R5	7.5 B, C, J, 8.2 K, M	,	J.	620	62				471	470	0,14,101			
1R4	1.4			GE	8R2				680	68			70/	511	510				
1R5	1.5				9R1	9.1	9.1 10 11 12 13 F, G, J,	-	EXTENDED VOLTAGE	750	75	<u>1</u>	2	М	561	560	_		
1R6	1.6			70/	100	10				820	82			200	621	620			
1R7	1.7				110					910	91			EXT	681	680			
1R8	1.8			IDE	120					101	100			E.	751	750			
1R9	1.9			EXTENDED	130					111	110				821	820		50	
2R0	2.0				150	15 K, M		EX	121	120			NA	911	910				
2R1	2.1				160	16				131	130				102	1000			
2R2	2.2				180	18													

$VRMS = 0.707 \times WVDC$

SPECIAL VALUES, TOLERANCES, HIGHER WVDC AND MATCHING AVAILABLE. PLEASE CONSULT FACTORY. NOTE: EXTENDED WVDC DOES NOT APPLY TO CDR PRODUCTS.

Capacitance values in **bold** type indicate porcelain dielectric. All other capacitance values indicate ceramic dielectric. All 700 A Capacitors are available laser marked with ATC's identification, capacitance code and tolerance.

ATC PART NUMBER CODE



The above part number refers to a 700 A Series (case size A) 6.8 pF capacitor,

J tolerance (±5%), 150 WVDC, with W termination (Tin/Lead, Solder Plated over Nickel Barrier), laser marking and ATC Cap-Pac® packaging.

ATC accepts orders for our parts using designations *with* or *without* the "ATC" prefix. Both methods of defining the part number are equivalent, i.e., part numbers referenced with the "ATC" prefix are interchangeable to parts referenced without the "ATC" prefix. Customers are free to use either in specifying or procuring parts from American Technical Ceramics.

For additional information and catalogs contact your ATC representative or call direct at (+1-631) 622-4700.

Consult factory for additional performance data.

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ATC 700 A Capacitors: Mechanical Configurations

ATC SERIES & CASE SIZE	ATC Term.	MIL-PRF-	CASE SIZE	OUTLINES	ВС	DDY DIMENSION INCHES (mm)	NS	Lead and Termination Dimensions and Materials		
	CODE	55681	& TYPE	W/T IS A Termination Surface	LENGTH (L)	WIDTH (W)	THICKNESS (T)	OVERLAP (Y)	MATERIALS	
700A	W	CDR12BP	A Solder Plate	$\begin{array}{c c} Y \to & \downarrow & \downarrow \\ \hline & \underline{w} & \\ \to & \downarrow & \downarrow \\ & \downarrow & \downarrow \\ & \downarrow & \downarrow & \uparrow & \downarrow \\ & \downarrow & \downarrow & \uparrow & \downarrow \\ & \downarrow & \downarrow & \uparrow & \downarrow \\ & \downarrow & \downarrow & \uparrow & \downarrow \\ & \downarrow & \downarrow & \uparrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \uparrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow \\ & \downarrow &$.055 +.015010 (1.40 +0.38 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	.010 +.010005 (0.25 +0.25 -0.13)	Tin/Lead, Solder Plated over Nickel Barrier Termination	
700A	Р	CDR12BP	A Pellet	$\begin{array}{c c} Y \to & \downarrow & \downarrow \\ \hline & \underline{w} & \\ \to & \downarrow & \downarrow \\ & \downarrow & \uparrow \to & \uparrow & \uparrow & \downarrow \end{array}$.055 +.025010 (1.40 +0.64 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	.010 +.010005 (0.25 +0.25 -0.13)	Heavy Tin/Lead Coated, over Nickel Barrier Termination	
700A	Т	N/A	A Solderable Nickel Barrier	$\begin{array}{c c} Y \to \left \leftarrow & \downarrow \\ \hline & \underline{w} \\ \to \left \perp \right \leftarrow \uparrow \to \left \uparrow \right + \downarrow \\ \end{array}$.055 +.015010 (1.40 +0.38 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	.010 +.010005 (0.25 +0.25 -0.13)	RoHS Compliant Tin Plated over Nickel Barrier Termination	
700A	CA	CDR11BP	A Gold Chip	$\begin{array}{c c} Y \to \left \leftarrow & \downarrow \\ \hline & \underline{w} \\ \to \left \perp \right \leftarrow \uparrow \to \left \uparrow \right + \\ \end{array}$.055 +.015010 (1.40 +0.38 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	.010 +.010005 (0.25 +0.25 -0.13)	RoHS Compliant Gold Plated over Nickel Barrier Termination	

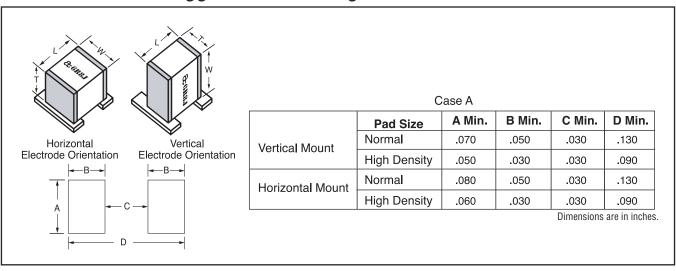
For a complete military catalog, request American Technical Ceramics document ATC 001-818.

ATC 700 A Non-Magnetic Capacitors: Mechanical Configurations

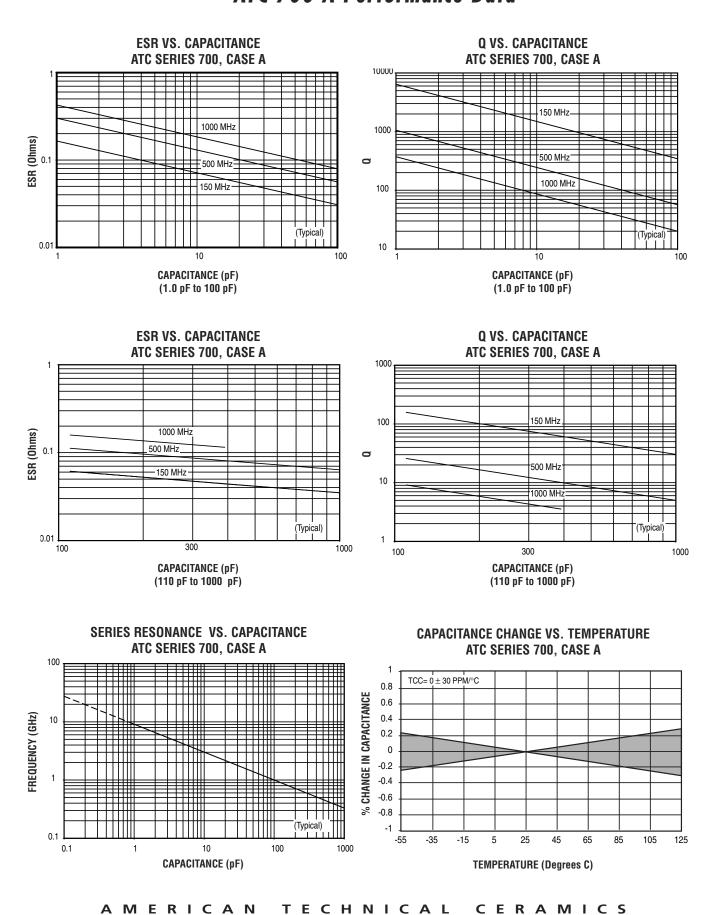
ATC SERIES & CASE SIZE	ATC TERM. CODE	MIL-PRF-	CASE SIZE	OUTLINES	ВС	DDY DIMENSION INCHES (mm)	NS	LEAD AND TERMINATION DIMENSIONS AND MATERIALS		
		55681	& TYPE	W/T IS A Termination Surface	LENGTH (L)	WIDTH (W)	THICKNESS (T)	OVERLAP (Y)	MATERIALS	
700A	WN	Meets Require- ments	A Non-Mag Solder Plate	$\begin{array}{c c} Y \to \left \leftarrow & \downarrow \\ \hline & w \\ \hline & \downarrow \\ &$.055 +.025010 (1.40 +0.64 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	.010 +.010005 (0.25 +0.25 -0.13)	Tin/Lead, Solder Plated over Non-Magnetic Barrier Termination	
700A	PN	Meets Require- ments	A Non-Mag	$\begin{array}{c c} Y \to \left \leftarrow & \downarrow \\ \hline & \underline{w} \\ \to \left \perp \right \leftarrow \uparrow \to \left \uparrow \right + \downarrow \\ \end{array}$.055 +.035010 (1.40 +0.89 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	.010 +.010005 (0.25 +0.25 -0.13)	Heavy Tin/Lead Coated, over Non-Magnetic Barrier Termination	
700A	TN	Meets Require- ments	A Non-Mag Solderable Barrier	$\begin{array}{c c} Y \to \left \leftarrow & \downarrow \\ \hline & \underline{w} \\ & \downarrow \\ $.055 +.025010 (1.40 +0.64 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	.010 +.010005 (0.25 +0.25 -0.13)	RoHS Compliant Tin Plated over Non-Magnetic Barrier Termination	

^{*}Capacitors with values greater than 100 pF contain a trace magnetic element that may exhibit weak magnetic properties.

Suggested Mounting Pad Dimensions



ATC 700 A Performance Data



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ATC Europe

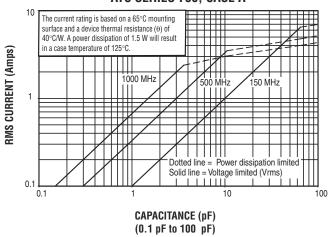
saleseur@atceramics.com

ATC Asia

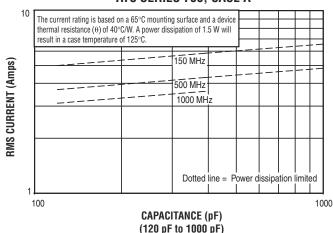
sales@atceramics-asia.com

ATC 700 A Performance Data

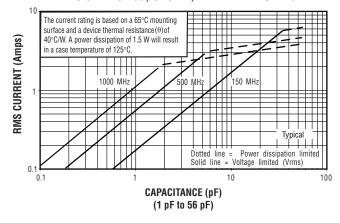
CURRENT RATING VS. CAPACITANCE ATC SERIES 700, CASE A



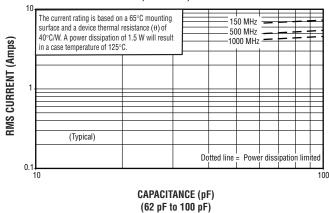
CURRENT RATING VS. CAPACITANCE ATC SERIES 700, CASE A



CURRENT RATING VS. CAPACITANCE ATC SERIES 700, CASE A, EXTENDED VOLTAGE



CURRENT RATING VS. CAPACITANCE ATC SERIES 700, CASE A, EXTENDED VOLTAGE



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ATC # 001-813 Rev. N. 9/14



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