

# ATC 800 A Capacitance Values

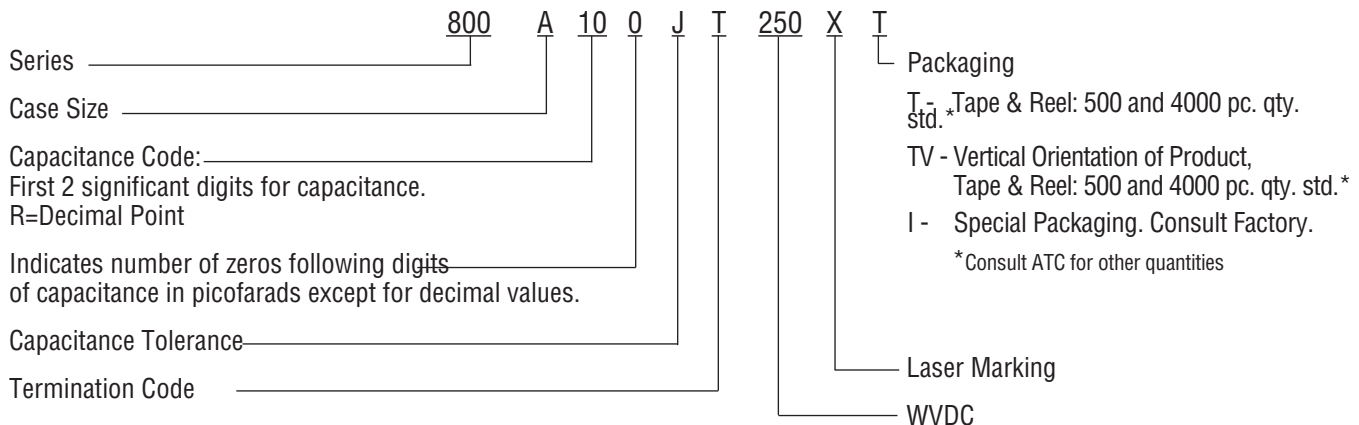
CAP. CODE	CAP. (pF)	TOL.	RATED WVDC	CAP. CODE	CAP. (pF)	TOL.	RATED WVDC	CAP. CODE	CAP. (pF)	TOL.	RATED WVDC
0R1	0.1	B	250	2R2	2.2	B, C, D	250	160	16	F, G, J, K, M	250
0R2	0.2	B, C		2R4	2.4			180	18		
0R3	0.3			2R7	2.7			200	20		
0R4	0.4			3R0	3.0			220	22		
0R5	0.5	B, C, D		3R3	3.3			240	24		
0R6	0.6			3R6	3.6			270	27		
0R7	0.7			3R9	3.9			300	30		
0R8	0.8			4R3	4.3			330	33		
0R9	0.9			4R7	4.7			360	36		
1R0	1.0			5R1	5.1			390	39		
1R1	1.1			5R6	5.6			430	43		
1R2	1.2			6R2	6.2			470	47		
1R3	1.3			6R8	6.8	B, C, J, K, M		510	51		
1R4	1.4			7R5	7.5			560	56		
1R5	1.5			8R2	8.2			620	62		
1R6	1.6			9R1	9.1			680	68		
1R7	1.7			F, G, J, K, M	100	10		750	75		
1R8	1.8				110	11		820	82		
1R9	1.9				120	12		910	91		
2R0	2.0				130	13		101	100		
2R1	2.1				150	15					

$$VRMS = 0.707 \times WVDC$$

SPECIAL VALUES, TOLERANCES AND MATCHING AVAILABLE. PLEASE CONSULT FACTORY.

CAPACITANCE TOLERANCE								
Code	B	C	D	F	G	J	K	M
Tol.	±0.1 pF	±0.25 pF	±0.5 pF	±1%	±2%	±5%	±10%	±20%

## ATC PART NUMBER CODE



The above part number refers to a 800 A Series (case size A) 10 pF capacitor, J tolerance (±5%), 150 WVDC, with T termination (Tin Plated over Nickel Barrier, RoHS Compliant), laser marking and tape and reel packaging.

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

Consult factory for additional performance data.


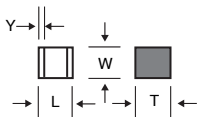

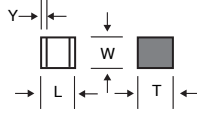
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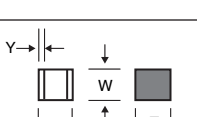
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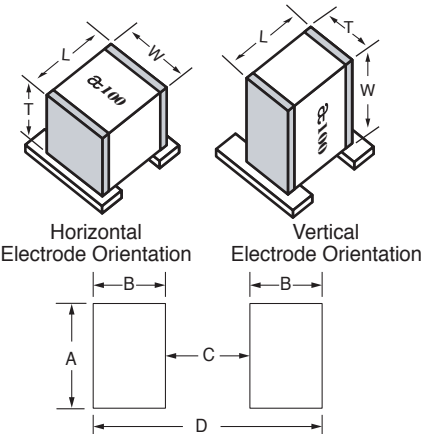
## ATC 800 A Capacitors: Mechanical Configurations

ATC SERIES & CASE SIZE	ATC TERM. CODE	CASE SIZE & TYPE	OUTLINES W/T IS A TERMINATION SURFACE	BODY DIMENSIONS Inches (mm)			LEAD AND TERMINATION DIMENSIONS AND MATERIALS	
				LENGTH (L)	WIDTH (W)	THICKNESS (T)	OVERLAP (Y)	MATERIAL
800A	T	A  Solderable Nickel Barrier		.055 +.015 -.010 (1.40 +0.38 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	.010 +.010 -.005 (0.25 +0.25 -0.13)	<b>RoHS Compliant</b> Tin Plated over Nickel Barrier Termination
800A	W	A  Solder Plate		.055 +.015 -.010 (1.40 +0.38 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	.010 +.010 -.005 (0.25 +0.25 -0.13)	Tin/Lead Solder Plated over Nickel Barrier Termination

## ATC 800 A Non-Magnetic Capacitors: Mechanical Configurations

ATC SERIES & CASE SIZE	ATC TERM. CODE	CASE SIZE & TYPE	OUTLINES W/T IS A TERMINATION SURFACE	BODY DIMENSIONS Inches (mm)			LEAD AND TERMINATION DIMENSIONS AND MATERIALS	
				LENGTH (L)	WIDTH (W)	THICKNESS (T)	OVERLAP (Y)	MATERIAL
800A	TN	A  Non-Mag Solderable Barrier		.055 +.015 -.010 (1.40 +0.38 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	.010 +.010 -.005 (0.25 +0.25 -0.13)	<b>RoHS Compliant</b> Tin Plated over Non-Magnetic Barrier Termination

## Suggested Mounting Pad Dimensions



Horizontal Electrode Orientation

Vertical Electrode Orientation

Case A

	Pad Size	A Min.	B Min.	C Min.	D Min.
Vertical Mount	Normal	.070	.050	.030	.130
	High Density	.050	.030	.030	.090
Horizontal Mount	Normal	.080	.050	.030	.130
	High Density	.060	.030	.030	.090

Dimensions are in inches.

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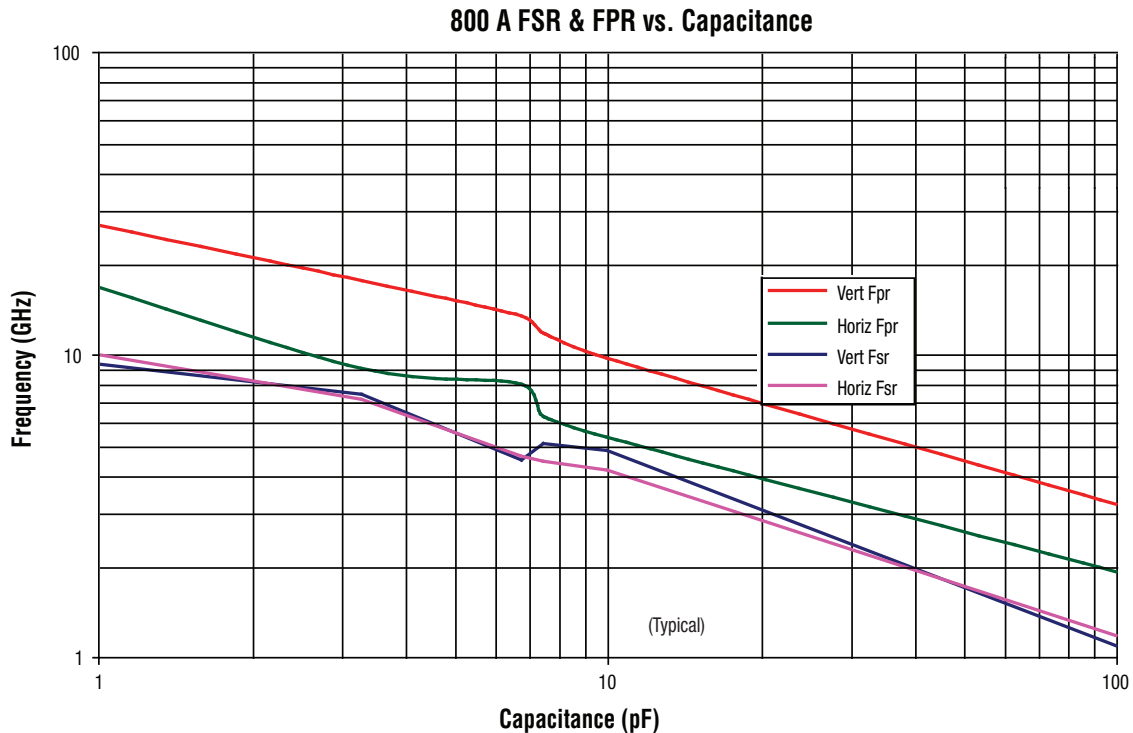
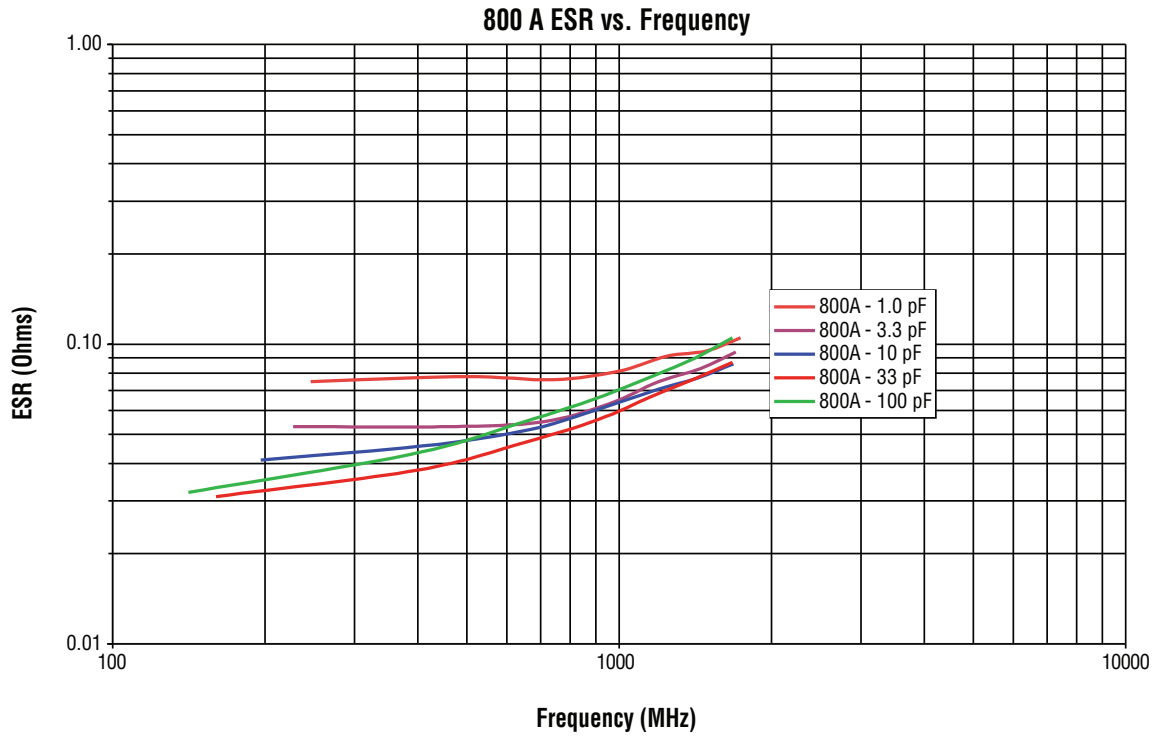
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# ATC 800 A Performance Data



## ATC 800 A Series Data Sheet Test Condition Description

Capacitors horizontally mounted in series microstrip configuration on 23.3-mil thick Rogers RO4350<sup>®</sup> softboard, 52-mils wide 1/2 oz. Cu traces.

**FSR** = lowest frequency at which S11 response, referenced at capacitor edge, crosses real axis on Smith Chart.

**FPR** = lowest frequency at which there is a notch in S21 magnitude response.

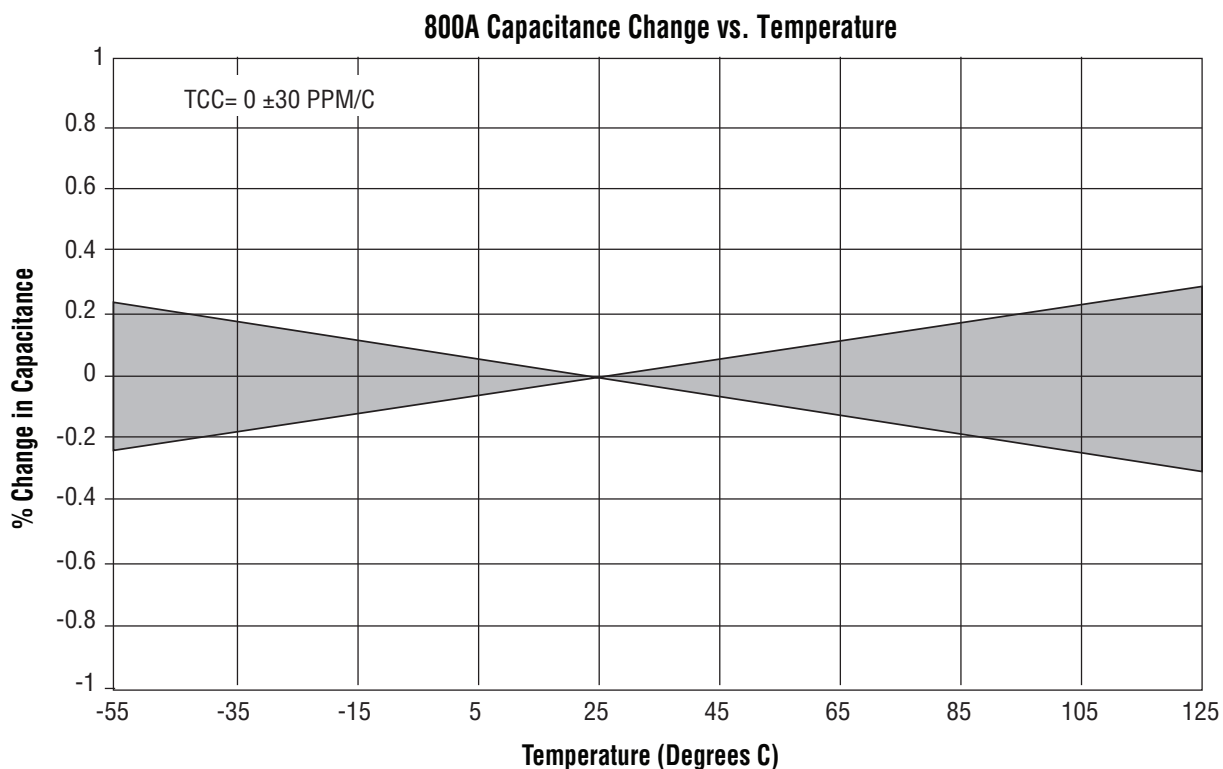
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# ATC 800 A Performance Data



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