

ATC 800 B Capacitance Values

CAP. CODE	CAP. (pF)	TOL.	RATED WVDC	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	500	2R4	2.4	B, C, D	500	200	20	F, G, J, K, M	500	151	150	F, G, J, K, M	300
0R2	0.2	B, C		2R7	2.7			220	22			161	160		
0R3	0.3			3R0	3.0			240	24			181	180		
0R4	0.4			3R3	3.3			270	27			201	200		
0R5	0.5	B, C, D		3R6	3.6			300	30			221	220		200
0R6	0.6			3R9	3.9			330	33			241	240		
0R7	0.7			4R3	4.3			360	36			271	270		
0R8	0.8			4R7	4.7			390	39			301	300		
0R9	0.9			5R1	5.1			430	43			331	330		
1R0	1.0			5R6	5.6			470	47			361	360		
1R1	1.1			6R2	6.2			510	51			391	390		
1R2	1.2			B, C, J, K, M	6R8	6.8		560	56			431	430		
1R3	1.3				7R5	7.5		620	62			471	470		
1R4	1.4				8R2	8.2		680	68			511	510		100
1R5	1.5	B, C, D		9R1	9.1	750		75	561			560			
1R6	1.6			100	10	820		82	621			620			
1R7	1.7			110	11	910		91	681			680	50		
1R8	1.8			120	12	101		100	751		750				
1R9	1.9			130	13	111		110	821		820				
2R0	2.0			150	15	121		120	911		910				
2R1	2.1			160	16	131		130	102		1000				
2R2	2.2			180	18										

$$VRMS = 0.707 \times WVDC$$

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

ATC PART NUMBER CODE

Series 800 Case Size B Capacitance Code: 91 First 2 significant digits for capacitance. R=Decimal Point

Indicates number of zeros following digits of capacitance in picofarads except for decimal values. 0

Capacitance Tolerance J

T WVDC

500 Termination Code

X Laser Marking

T Packaging

T - Tape & Reel: 500 and 1000 pc. qty. std.*
TV - Vertical Orientation of Product, Tape & Reel: 500 and 1000 pc. qty. std.*
I - Special Packaging. Consult Factory.
*Consult ATC for other quantities

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

The above part number refers to a 800 B Series (case size B) 91 pF capacitor, J tolerance (±5%), 500 WVDC, with T termination (Tin Plated over Nickel Barrier Termination, 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.

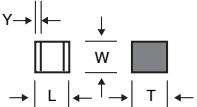
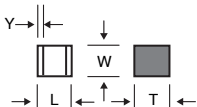
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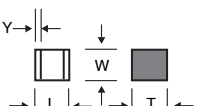
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ATC 800 B Capacitors: Mechanical Configurations

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
800B	T	 B Solderable Nickel Barrier		.110 +.020 -.010 (2.79 +0.51 -.025)	.110 ±.015 (2.79 ±0.38)	.070 (1.78) max.	.015 (0.38) ±.010 (0.25)	RoHS Compliant Tin Plated over Nickel Barrier Termination
800B	W	 B Solder Plate		.110 +.020 -.010 (2.79 +0.51 -.025)	.110 ±.015 (2.79 ±0.38)	.070 (1.78) max.	.015 (0.38) ±.010 (0.25)	Tin/Lead Solder Plated over Nickel Barrier Termination

ATC 800 B Capacitors: Non-Magnetic 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
800B	TN	 B Non-Mag Solderable Barrier		.110 +.020 -.010 (2.79 +0.51 -.025)	.110 ±.015 (2.79 ±0.38)	.070 (1.78) max.	.015 (0.38) ±.010 (0.25)	RoHS Compliant Tin Plated over Non-Magnetic Barrier Termination

Suggested Mounting Pad Dimensions

Case B Vertical Mount

Cap Value.43)	Pad Size	A Min	B Min	C Min	D Min
All Values	Normal	.090 (2.29)	.050 (1.27)	.075 (1.91)	.175 (4.45)
	High Density	.070 (1.78)	.030 (.762)	.075 (1.91)	.135 (3.43)

Case B Horizontal Mount

Cap Value.43)	Pad Size	A Min	B Min	C Min	D Min
All Values	Normal	.130 (3.30)	.050 (1.27)	.075 (1.91)	.175 (4.45)
	High Density	.110 (2.79)	.030 (.762)	.075 (1.91)	.135 (3.43)

inches (mm)

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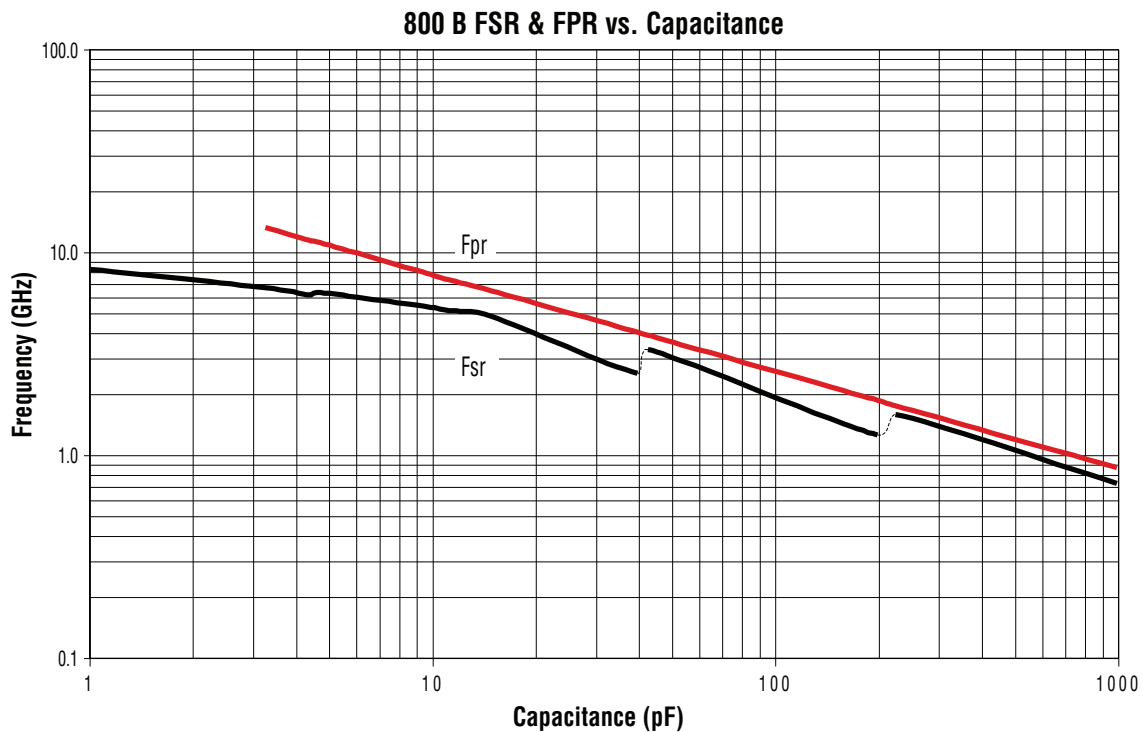
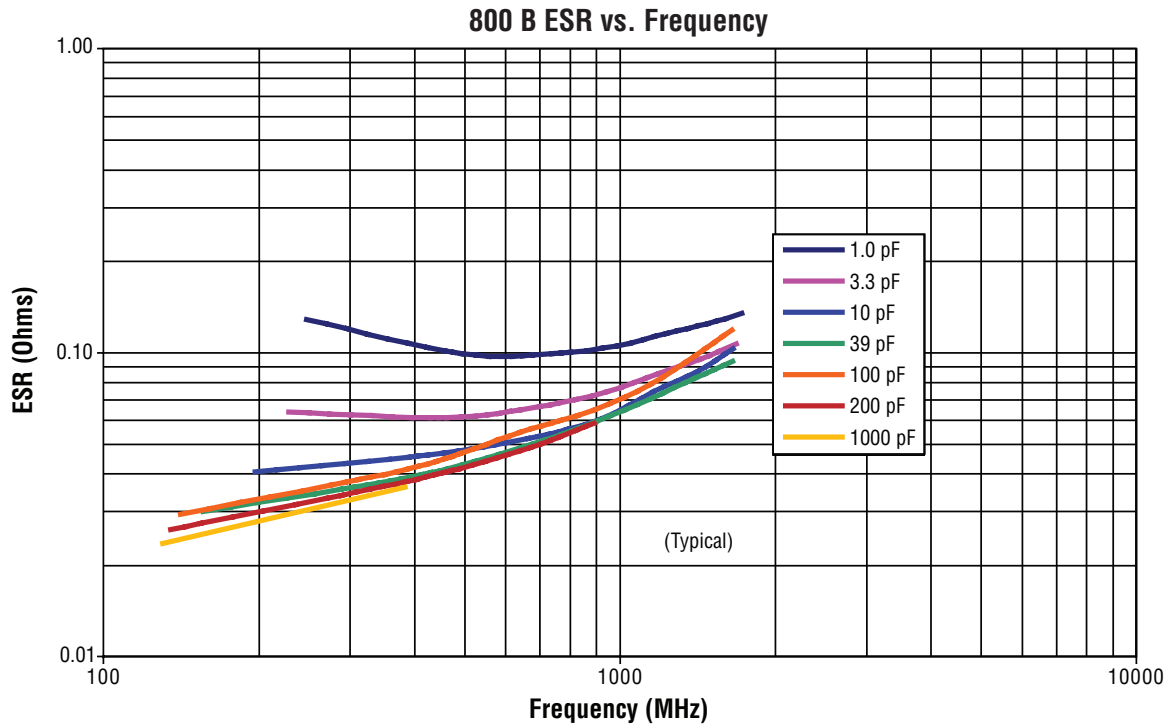
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ATC 800 B Performance Data



ATC 800 B Series Data Sheet Test Condition Description

Capacitors vertically mounted in series microstrip configuration on 23.3-mil thick Rogers RO4350® 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.

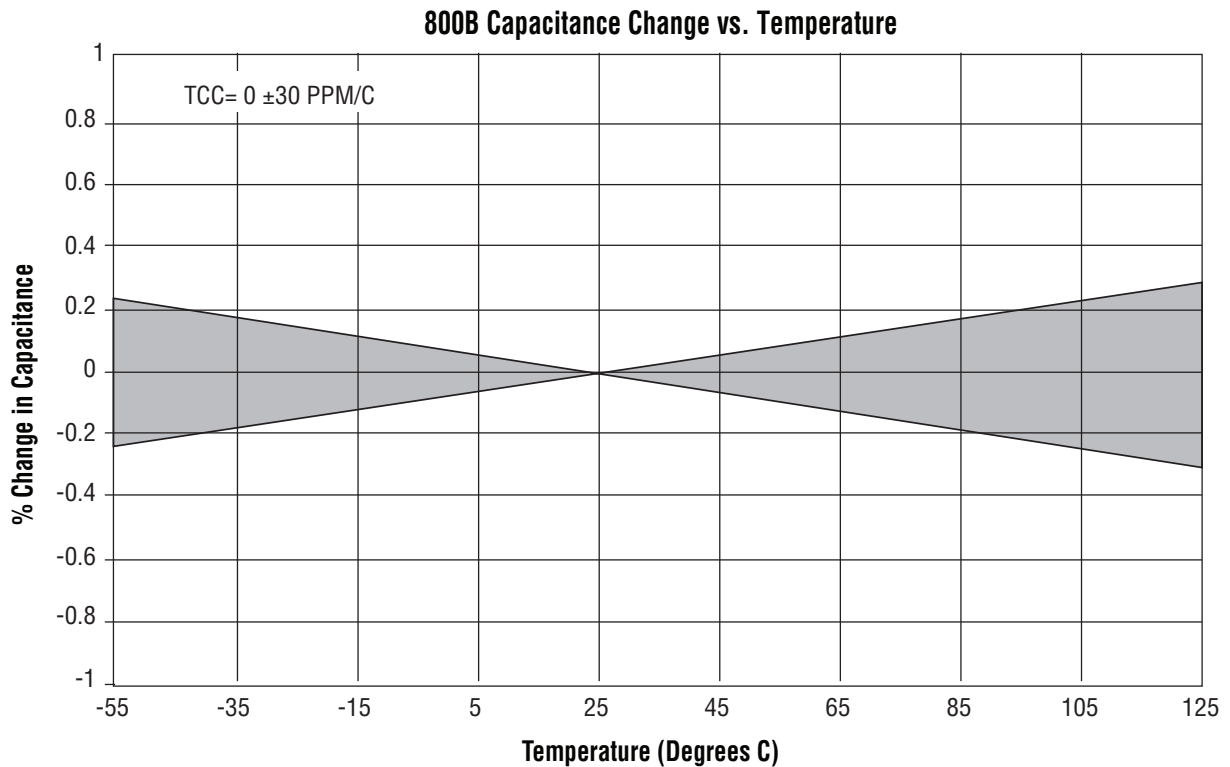
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ATC 800 B Performance Data



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