

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
OR1	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
OR2	0.2	B, C		2R7	2.7			220	22			161	160		
OR3	0.3			3R0	3.0			240	24			181	180		
OR4	0.4			3R3	3.3			270	27			201	200		
OR5	0.5			3R6	3.6			300	30			221	220		
OR6	0.6	B, C, D		3R9	3.9			330	33			241	240		
OR7	0.7			4R3	4.3			360	36			271	270		
OR8	0.8			4R7	4.7			390	39			301	300		
OR9	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, D	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		
1R5	1.5	9R1			9.1			750	75			561	560		
1R6	1.6	100			10			820	82			621	620		
1R7	1.7	F, G, J, K, M	110		11	910	91	681	680						
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	F, G, J, K, M	160	16	131	130	102	1000							
2R2	2.2		180	18											

VRMS = 0.707 X 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 Termination Code
500 WVDC
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	K	M
Tol.	±0.1 pF	±0.25 pF	±0.5 pF	±1%	±2%	±5%	±10%	±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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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 -0.25)	.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 -0.25)	.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 -0.25)	.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

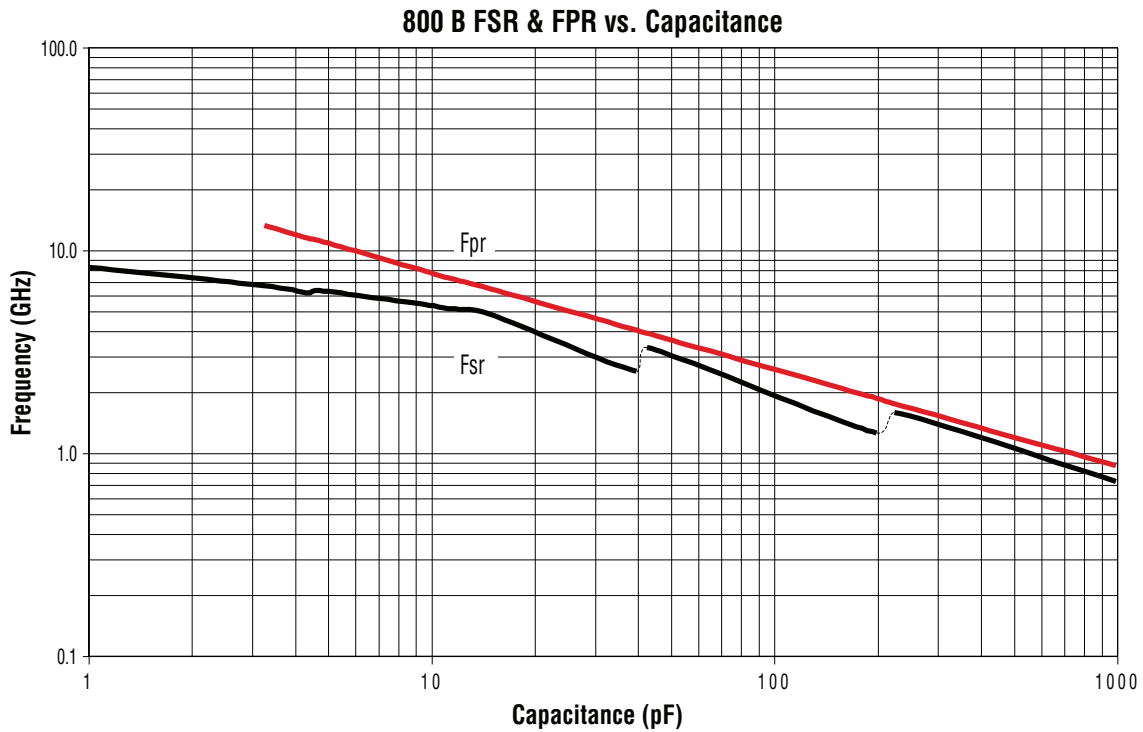
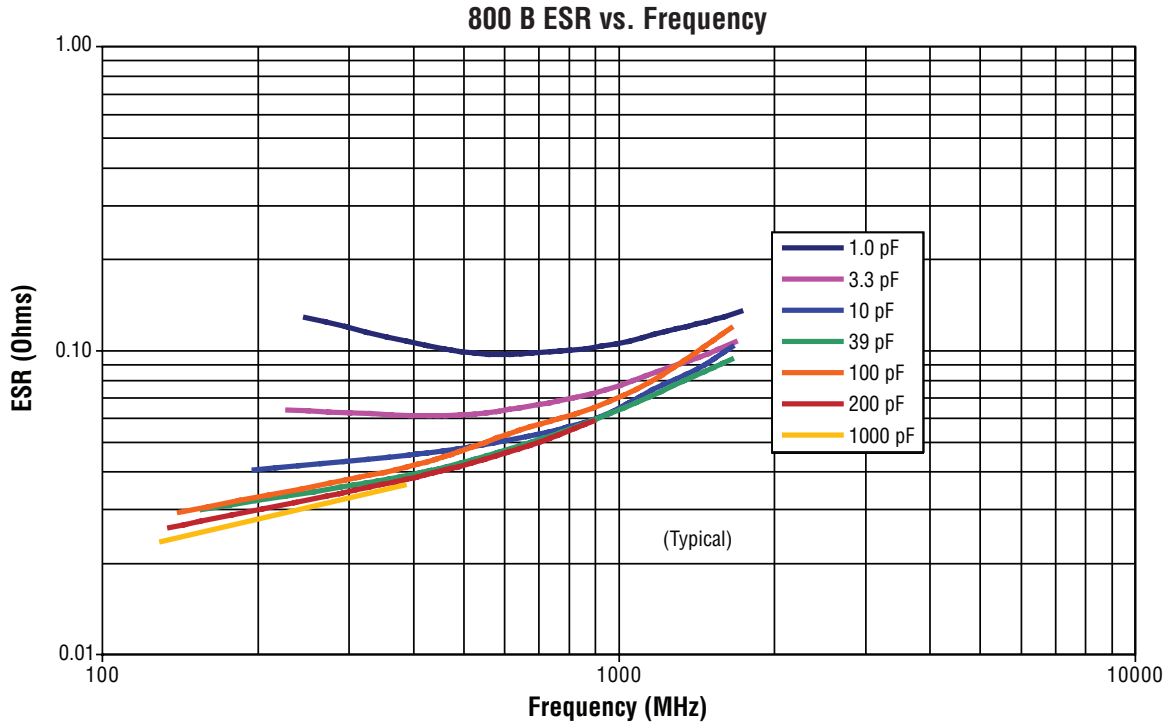
Cap Value(.43)	Pad Size	A Min	B Min	C Min	D Min
All Values	Normal	.090 (2.29)	.050 (1.27)	.075 (1.91)	.175 (4.45)
	High Density	.070 (1.78)	.030 (.762)	.075 (1.91)	.135 (3.43)

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)

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.

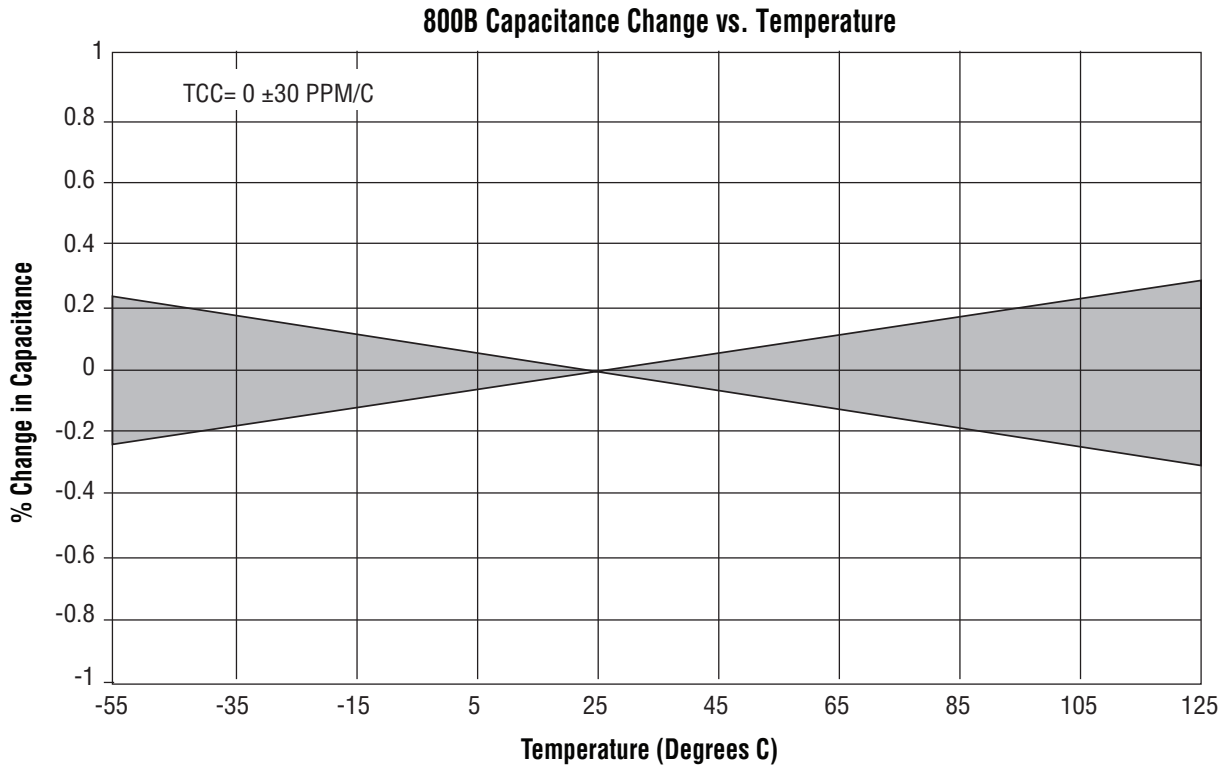
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ATC 800 B Performance Data



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