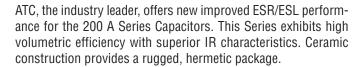
ATC 200 A Series BX Ceramic Multilayer Capacitors



Typical functional applications: Bypass, Coupling and DC Blocking.

Typical circuit applications: Switching Power Supplies and High Power Broadband Coupling.

ENVIRONMENTAL TESTS

ATC 200 A Series Capacitors are designed and manufactured to meet and exceed the requirements of EIA-198, MIL-PRF-55681 and MIL-PRF-123.

MIL-STD-202, Method 107, Condition A.

MIL-STD-202, Method 106.

MIL-STD-202, Method 103, Condition A, with 1.5 Volts DC applied while subjected to an environment of 85°C with 85% relative humidity for 240 hours min.

MIL-STD-202, Method 108, for 2000 hours, at 125°C. 200% WVDC applied.



ELECTRICAL AND MECHANICAL SPECIFICATIONS

10⁴ Megohms min. @ +25°C at rated WVDC.

#" 3% maximum per decade hour.

From -55°C to +125°C (No derating of working voltage).

#! # "#' " Available in various surface mount styles. See Mechanical Configurations, page 3.

#! "#! # Terminations for chips and pellets withstand a pull of 5 lbs. min., 10 lbs. typical, for 5 seconds in direction perpendicular to the termination surface of the capacitor. Test per MIL-STD-202, method 211.



AMERICAN

ATC North America sales@atceramics.com

TECHNICAL

ATC Europe saleseur@atceramics.com

CERAMICS

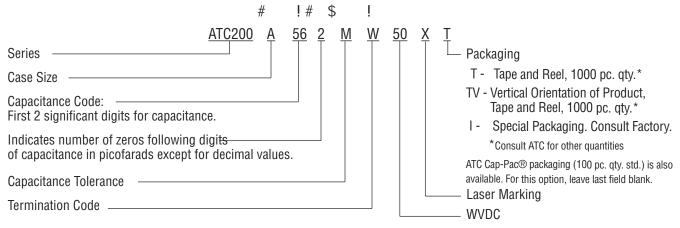
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ATC 200 A Capacitance Values

	5	#	! # &%		5	#	! # &%
511 561 621 681 751 821 911 102 122 152 182	510 560 620 680 750 820 910 1000 1200 1500 1800	K, M, N	50	202 222 272 332 392 472 502 562 682 822 103	2000 2200 2700 3300 3900 4700 5000 5600 6800 8200 10,000	K, M, N	50

	#						
	#	ļ					
Code	K	M	N				
Tol.	±10%	±20%	±30%				



The above part number refers to a 200 A Series (case size A) 5600 pF capacitor, M tolerance (±20%), 50 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.

A M E R I C A N T E C H N I C A L C E R A M I C S ATC North America ATC Europe ATC Asia

ATC North America sales@atceramics.com

ATC Europe saleseur@atceramics.com

sales@atceramics-asia.com

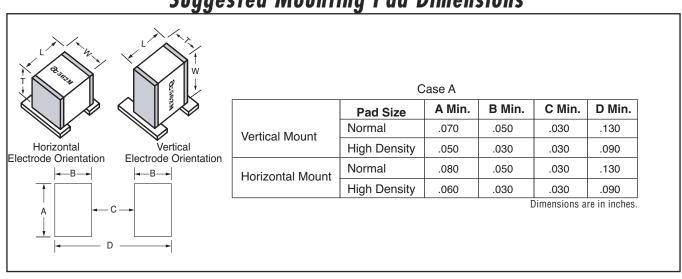
ATC 200 A Capacitors: Mechanical Configurations

"	" "(\$# "	, " " " 22			#!#		
	#!	#'	& # " #! # "\$!	#	& # &	# ""	%!	#!"
200A	W	A Solder Plate	$\begin{array}{c c} Y \to & \downarrow & \downarrow \\ \hline & W & \downarrow \\ \to & \downarrow & \downarrow & \uparrow & \uparrow & \uparrow & \uparrow & \downarrow \end{array}$.055 +.015010 (1.40 +0.38 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	0.010 +.010005 (0.25 +0.25 - 0.13)	Tin/Lead, Solder Plated over Nickel Barrier Termination
200A	Р	A Pellet	$\begin{array}{c c} Y \to & \downarrow & \downarrow \\ \hline & W & \downarrow \\ \to & \downarrow L & \uparrow \to \uparrow T & \downarrow \leftarrow \end{array}$.055 +.025010 (1.40 +0.64 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	0.010 +.010005 (0.25 +0.25 - 0.13)	Heavy Tin/Lead Coated, over Nickel Barrier Termination
200A	Т	A Solderable Nickel Barrier	$\begin{array}{c c} Y \to & \downarrow & \downarrow \\ \hline & W & \downarrow \\ \to & \downarrow L & \uparrow \to \uparrow T & \uparrow \leftarrow \end{array}$.055 +.015010 (1.40 +0.38 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	0.010 +.010005 (0.25 +0.25 - 0.13)	RoHS Compliant Tin Plated over Nickel Barrier Termination
200A	CA	A Gold Chip	$\begin{array}{c c} Y \to & \downarrow & \downarrow \\ \hline & W & \downarrow \\ \to & \downarrow L & \uparrow \to \uparrow & \uparrow & \downarrow \leftarrow \end{array}$.055 +.015010 (1.40 +0.38 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	0.010 +.010005 (0.25 +0.25 - 0.13)	RoHS Compliant Gold Plated over Nickel Barrier Termination

ATC 200 A Capacitors: Non-Magnetic Mechanical Configurations

" ! " # ! " (" " (#'	\$# "	, " " 22			#!#		
		& # " # ! # "\$!	#	& # &	# ""	%!	#!"	
200A	WN	A Non-Mag Solder Plate	$\begin{array}{c c} Y \to & \downarrow & \downarrow \\ \hline & \hline & W \\ \to & \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 & \uparrow & \downarrow \\ & \downarrow & \downarrow & \uparrow & \downarrow \\ & \downarrow & \downarrow & \uparrow & \downarrow \\ & \downarrow & \downarrow & \uparrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \uparrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \uparrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \uparrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \uparrow & \downarrow \\ & \downarrow & \downarrow & \downarrow & \downarrow \\ & \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 $.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
200A	PN	A Non-Mag Pellet	$\begin{array}{c c} Y \to & \downarrow & \downarrow \\ \hline & W & \downarrow \\ \to & \downarrow & \downarrow & \uparrow & \uparrow & \uparrow & \uparrow & \downarrow \end{array}$.055 +.035010 (1.40 +0.89 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	0.010 +.010005 (0.25 +0.25 - 0.13)	Heavy Tin/Lead Coated, over Non-Magnetic Barrier Termination
200A	TN	A Non-Mag Solderable Barrier	$\begin{array}{c c} Y \to & \downarrow & \downarrow \\ \hline & W & \downarrow \\ \to & \downarrow & \downarrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \end{array}$.055 +.025010 (1.40 +0.64 -0.25)	.055 ±.015 (1.40 ±0.38)	.057 (1.45) max.	0.010 +.010005 (0.25 +0.25 - 0.13)	RoHS Compliant Tin Plated over Non-Magnetic Barrier Termination

Suggested Mounting Pad Dimensions



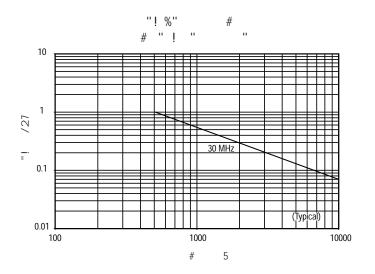
AMERICAN TECHNICAL CERAMICS

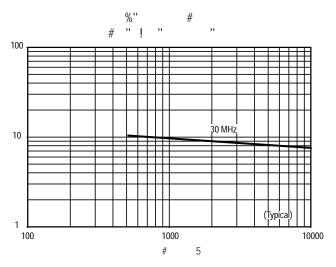
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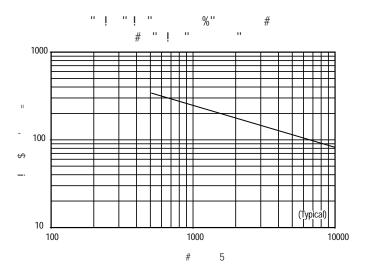
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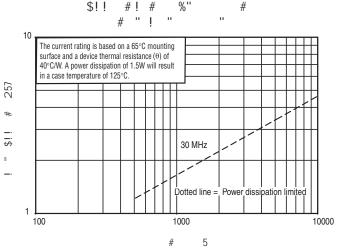
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ATC 200 A Performance Data









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ATC Europe saleseur@atceramics.com

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