ATC 116 SERIES MAX-KTM SLCs

ATC's 116 Series MAX-KTM single layer capacitors provide the highest capacitance per unit area with a stable X7R temperature coefficient of capacitance (±15%).

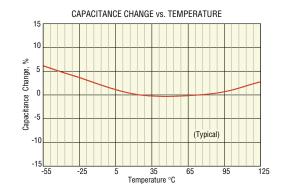
Features

- X7R Dielectric ±15% (-55 °C to +125 °C)
- Capacitance Range 150 to 10,000 pF
- Dielectric Constant 25,000 typ.

Specifications

• DF ≤ 2%, Q ≥ 50, measured at 1 MHz for C ≤ 1000 pF; 1 KHz for C > 1000 pF

Insulation Resistance: 10⁴ MΩ (typ.)
 Working Voltage: 25 WVDC/50 WVDC
 Aging Rate: less than 3% per decade hour
 Bond Strength and Die Sheer: MIL-STD-883



Selection Guide

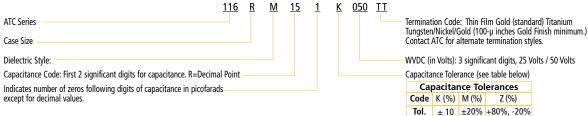
Case Size		R	T	U	Х	Y	Z
Dimensions		.015 (.381)	.025 (.635)	.035 (.889)	.050 (1.27)	.070 (1.78)	.090 (2.29)
(L&W nom.)		± .005 (.127)	± .005 (.127)	± .005 (.127)	± .010 (.254)	± .010 (.254)	± .010 (.254)
25 V Thickness (T)		.005 (.127) ±. 001 (.0254)	.005 (.127) ±. 001 (.0254)	.005 (.127) ±. 001 (.0254)	.005 (.127) ±. 001 (.0254)	.005 (.127) ±. 001 (.0254)	.005 (.127) ±. 001 (.0254)
50 V Thickness (T)		.007 (.178) ± .001 (.0254)	.007 (.178) ± .001 (.0254)	.007 (.178) ± .001 (.0254)	.007 (.178) ± .001 (.0254)	.007 (.178) ± .001 (.0254)	.007 (.178) ± .001 (.0254)
	Cap Code						
150	151	116RM151 * 050TT					
220	221	116RM221 * 050TT					
270	271	116RM271 * 025TT					
330	331	116RM331 * 025TT					
390	391		116TM391 * 050TT				
470	471		116TM471 * 050TT				
560	561		116TM561 * 050TT				
680	681		116TM681 * 025TT				
750	751		116TM751 * 025TT				
820	821		116TM821 * 025TT	116UM821 * 050TT			
1000	102			116UM102 * 050TT			
1200	122			116UM122 * 025TT			
1500	152			116UM152 * 025TT	116XM152 * 050TT		
1800	182				116XM182 * 050TT		
2200	222				116XM222 * 050TT		
2700	272				116XM272 * 025TT		
3300	332				116XM332 * 025TT	116YM332 * 050TT	
3900	392					116YM392 * 050TT	
4700	472					116YM472*050TT	
5600	562					116YM562*025TT	
6200	622					116YM622*025TT	116ZM622 * 050TT
6800	682					116YM682*025TT	116ZM682 * 050TT
7500	752						116ZM752 * 050TT
8200	822						116ZM822 * 025TT
10000	103						116ZM103 * 025TT

*Available in K, M and Z tolerances

Inches (mm)

Prototype quantities available in 1 week. Custom sizes available upon request.

ATC Part Number Code



The above part number refers to a 116 series, case size R, M dielectric, 150 pF, with a capacitance tolerance of K (±10 pF), 50 WVDC, with thin film gold termination. 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.

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