




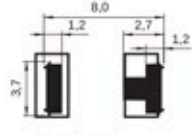
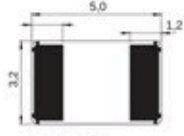
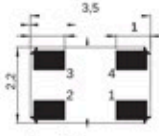
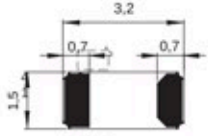
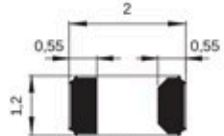


SMT Ceramic AT-CUT Crystal 100% Lead Free

Type CC1A / F	Type CC2A	Type CC6A / F	Type CC7A	Type CC8A
Package 8 x 3.7 mm	Package 5 x 3.2 mm	Package 3.5 x 2.2 mm	Package 3.2 x 1.5 mm	Package 2 x 1.2 mm
		 2 or 4 pads available		
 h=1.75 mm	 h=1.2 mm	 h=0.9 mm	 h=0.9 mm	 h=0.63 mm

Standard							
Product Type	Package size (mm)	Frequency (MHz)	Temperature Range	Rs typ Resistance at Fmin and Fmax	C1 typ Capacitance at Fmin and Fmax	C0 typ Capacitance at Fmin and Fmax	Features
CC1A-T1A	8 x 3.7	8-30	-55 to 125°C	60 to 30 Ω	4 to 11 fF	2 to 4 pF	
CC1F-T1A	8 x 3.7	30-250	-55 to 125°C	50 to 15 Ω	4 to 6 fF	2.4 to 6 pF	
CC2A-T1A	5 x 3.2	12-70	-55 to 125°C	60 to 10 Ω	3 to 12 fF	2 to 5 pF	
CC6A-T1A	3.5 x 2.2	16-70	-55 to 125°C	60 to 20 Ω	2 to 5 fF	1.5 to 3 pF	
CC6F-T1A	3.5 x 2.2	70-250	-55 to 125°C	50 to 15 Ω	2.7 to 5.6 fF	2.4 to 2.9 pF	
CC6F-T1AF	3.5 x 2.2	70-200	-55 to 125°C	50 to 35 Ω	2 to 3 fF	2.4 to 2.9 pF	Filter Application Low Spurious Level
CC7A-T1A	3.2 x 1.5	24-50	-55 to 125°C	100 to 50 Ω	1 to 3 fF	0.5 to 2 pF	Medical Implantable
CC8A-T1A	2 x 1.2	24-50	-55 to 125°C	120 to 50 Ω	1 to 3 fF	0.5 to 2 pF	Medical Implantable

High Temperature							
Product Type	Package size (mm)	Frequency (MHz)	Temperature Range	Rs typ Resistance at Fmin and Fmax	C1 typ Capacitance at Fmin and Fmax	C0 typ Capacitance at Fmin and Fmax	Features
CC1A-T1AH	8 x 3.7	8-24	-55 to 200°C	100 to 50 Ω	4 to 9 fF	2 to 3.2 pF	Very Harsh Environment
CC2A-T1AH	5 x 3.2	12-40	-55 to 200°C	70 to 40 Ω	5 to 10 fF	2,5 to 4 pF	Very Harsh Environment
CC6A-T1AH	3.5 x 2.2	16-40	-55 to 200°C	80 to 50 Ω	2 to 9 fF	1,5 to 3 pF	Very Harsh Environment

* data sheet for additional details onrequest

Applications
<p>Products are screened and specially tested</p> <ul style="list-style-type: none"> • Medical Implantable • Health Care and Medical • Airborne Equipment • Optical Network • Radio Communications • Telemetry • Down Hole and Well Drilling

Description
<ul style="list-style-type: none"> - This SMT quartz crystal in ceramic package has been specially designed for surface mount using vapor phase soldering, epoxy assembling technology and standard reflow soldering. - All quartz crystals are in fundamental mode frequency range up to 250 MHz. - Specially designed for harsh environmental shock and vibration - Extremely wide operating temperature ranges up to 200°C, with a ultra low internal moisture level.

