

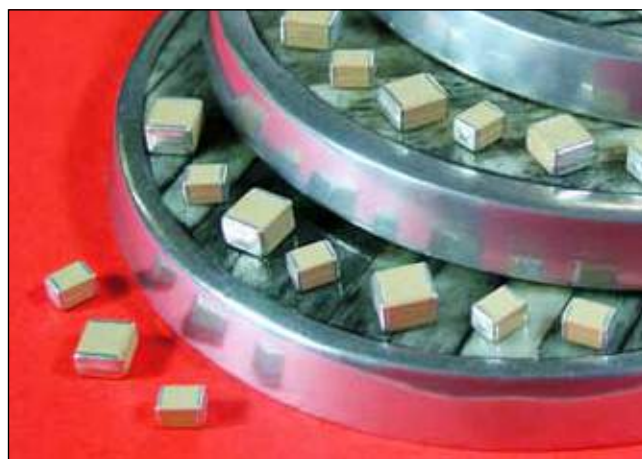
# StackiCap™ Capacitors - X7R



The StackiCap™ range offers a significant reduction in 'PCB real estate' for an equivalent capacitance value when board space is at a premium. For example, a standard 150nF chip in a 8060 case size is now available in a much smaller 3640 case size.

Knowles's unique patented\* construction and FlexiCap™ termination material make the StackiCap™ range suitable for applications including: power supplies, lighting, aerospace electronics and high voltage applications where a large amount of capacitance is required. Further developments are on-going, please contact the Sales Office for details of the full range.

\* StackiCap™ technology is protected by international patents (pending) EP2847776, WO2013186172A1, US20150146343A1 and CN104471660A.



## Maximum capacitance

Up to 5.6μF

## Maximum voltage

Up to 2kV

## Insulation resistance

Time Constant (RxCr) (whichever is the least - 500s or 500MΩ)

## Maximum capacitance values - StackiCap™ Capacitors

Chip Size	1812	2220	3640
200/250V	1.0μF	2.2μF	5.6μF
500V	470nF	1.2μF	2.7μF
630V	330nF	1.0μF	2.2μF
1kV	180nF	470nF	1.0μF
1.2kV	100nF	220nF	470nF
1.5kV	56nF	150nF	330nF
2kV	33nF	100nF	150nF

■ = AEC-Q200

## Ordering information - StackiCap™ Capacitors

1812	Y	500	0474	K	J	T	WS2
Chip size	Termination	Voltage	Capacitance in picofarads (pF)	Capacitance tolerance	Dielectric	Packaging	Suffix code
1812 2220 3640	Y = FlexiCap™ termination base with nickel barrier (100% matte tin plating). RoHS compliant. Lead free. H = FlexiCap™ Termination base with nickel barrier (Tin/lead plating with minimum 10% lead). Not RoHS compliant.	200/250 = 200/250V 500 = 500V 630 = 630V 1K0 = 1kV 1K2 = 1.2kV 1K5 = 1.5kV 2K0 = 2kV	First digit is 0. Second and third digits are significant figures of capacitance code in picofarads (pF). Fourth digit is number of zeros eg. 0474 = 470nF Values are E12 series	J = ±5% K = ±10% M = ±20%	J = X7R (BME) E = X7R (2R1) AEC-Q200 S = X7R (BME) AEC-Q200 X = X7R	T = 178mm (7") reel R = 330mm (13") reel B = Bulk pack - tubs or trays	WS2

## Reeled quantities - StackiCap™ Capacitors

	1812	2220	3640
178mm (7") Reel	500	500	-
330mm (13") Reel	2,000	2,000	500



Note: Parts in this range may be defined as dual-use under export control legislation as such may be subject to export licence restrictions.

Please refer to page 12 for more information on the dual-use regulations and contact the Sales Office for further information on specific part numbers.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Knowles:

[1812Y1K00154KXTWS2](#) [1812Y5000474KXTWS2](#) [2220Y5000105KXTWS2](#) [1812Y2000105KXTWS2](#)  
[2220Y1K00474KXTWS2](#) [2220Y2K00104KXTWS2](#) [2220Y2K00104KXRWS2](#) [2220Y1K00474KXRWS2](#)  
[2220Y2K00104KXBWS2](#) [1812Y1K00104KJTWS2](#) [1812Y5000394KJTWS2](#) [1812Y6300224KJTWS2](#)  
[2220Y6300474KJTWS2](#) [2220Y5000105KJTWS2](#) [1812Y1K00154KJTWS2](#) [2220Y1K00474KJTWS2](#)  
[2220Y2500225KJTWS2](#) [1812Y1K20104KJTWS2](#) [1812Y2500105KJTWS2](#) [2220Y1K20224KXTWS2](#)  
[1812Y6300334KETWS2](#) [1812Y5000474KETWS2](#) [1812Y1K00184KETWS2](#) [2220Y6300105KETWS2](#)  
[2220Y1K00474KETWS2](#) [1812Y2500105KETWS2](#) [3640Y1K00105KETWS2](#) [1812Y1K00104KSTWS2](#)  
[1812Y2500105KSTWS2](#) [1812Y2500105KXTWS2](#) [2220Y6300474KXTWS2](#) [1812Y6300224KXTWS2](#)  
[1812Y1K20104KXTWS2](#) [1812Y1K00104KETWS2](#) [1812Y6300224MXTWS2](#)