THE DATASHEET OF

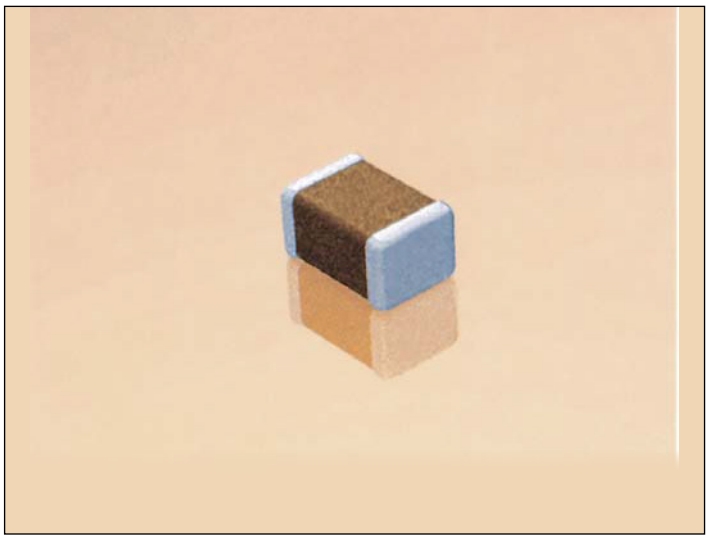
2225PC125MAT1A

MLC Chip Capacitors

Tip & Ring Chips

AVX "Tip & Ring" or "ring detector" Multilayer Ceramic Chip Capacitors are designed as a standard telecom filter to block -48 Volts DC telephone line voltage and pass subscriber's AC signal pulse (16 to 25Hz, 70 to 90Vrms). The typical ringing signal is seen on figure on page 132. The ringer capacitors replace large leaded film capacitors and are ideal for telecom/modem applications. Using AVX "Tip & Ring" capacitors not only saves valuable real estate on the board and reduces the weight of overall product, but also features standard surface mounting capabilities, so critical to new and compact designs.

The AVX "Tip & Ring" capacitors are offered in standard EIA sizes and standard values. They offer excellent high frequency performance, low ESR and improved temperature performance over film capacitors.

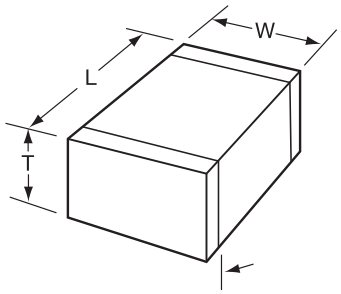


HOW TO ORDER

1812	P	C	104	K	A	T	1	A
AVX Style 0805 1206 1210 1808 1812 1825 2220 2225	**Voltage** 250 VDC Telco Rating	**Temperature Coefficient** X7R	**Capacitance Code** (2 significant digits + no. of zeros) Examples: 1,000 pF = 102 22,000 pF = 223 220,000 pF = 224 1 µF =105	**Capacitance Tolerance** K = ±10% M = ±20%	**Test Level** A = Standard	**Termination** T = Plated Ni and Sn (RoHS Compliant) Z = FLEXITERM® 100% Tin (RoHS Compliant)	**Packaging** 1 or 2 = 7" Reel 3 or 4 = 13" Reel 9 = Bulk	**Special Code** A = Standard

Contact factory for availability of Termination and Tolerance options for Specific Part Numbers.

RoHS COMPLIANT



DIMENSIONS

millimeters (inches)

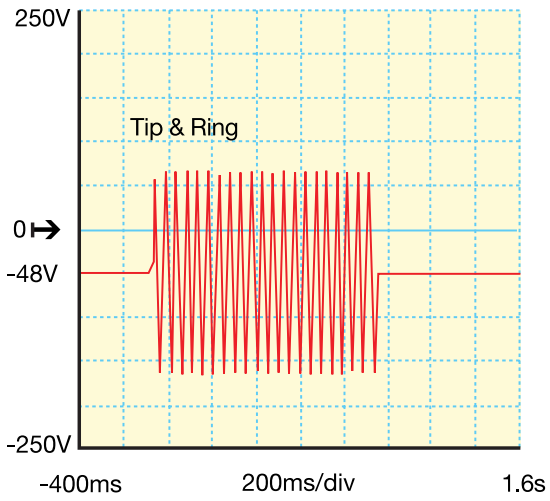
Style	0805	1206	1210*	1808*	1812*	1825*	2220*	2225*
(L) Length	2.01 ± 0.20 (0.079 ± 0.008)	3.20 ± 0.20 (0.126 ± 0.008)	3.2 ± 0.20 (0.126 ± 0.008)	4.57 ± 0.25 (0.180 ± 0.010)	4.50 ± 0.30 (0.177 ± 0.012)	4.50 ± 0.30 (0.177 ± 0.012)	5.60 ± 0.30 (0.220 ± 0.012)	5.60 ± 0.25 (0.220 ± 0.010)
(W) Width	1.25 ± 0.20 (0.049 ± 0.008)	1.60 ± 0.20 (0.063 ± 0.008)	2.50 ± 0.20 (0.098 ± 0.008)	2.03 ± 0.25 (0.080 ± 0.010)	3.2 ± 0.20 (0.126 ± 0.008)	6.34 ± 0.30 (0.252 ± 0.012)	5.10 ± 0.40 (0.200 ± 0.016)	6.35 ± 0.25 (0.250 ± 0.010)
(T) Thickness .	1.30 max. (0.051 max.)	1.50 max. (0.059 max.)	1.78 max. (0.070 max.)	1.78 max. (0.070 max.)	2.00 max. (0.080 max.)	2.00max. (0.080 max.)	2.00 max. (0.080 max.)	2.00 max. (0.080 max.)
(t) terminal	0.50 ± 0.25 (0.020 ± 0.010)	0.50 ± 0.25 (0.020 ± 0.010)	0.50 ± 0.25 (0.020 ± 0.010)	0.63 ± 0.38 (0.025 ± 0.015)	0.63 ± 0.38 (0.025 ± 0.015)	0.63 ± 0.38 (0.025 ± 0.015)	0.63 ± 0.38 (0.025 ± 0.015)	0.63 ± 0.38 (0.025 ± 0.015)

*Reflow Soldering Only

CAPACITANCE RANGE (MF)

Size	0805	1206	1210	1808	1812	1825	2220	2225
min.	0.0010	0.0010	0.0010	0.010	0.10	0.33	0.47	0.47
max.	0.027	0.082	0.22	0.27	0.47	1.0	1.0	1.2

"TIP & RING" GRAPH



PERFORMANCE CHARACTERISTICS

Capacitance Range	1000 pF to 1.2 µF (25°C, 1.0 ±0.2 Vrms at 1kHz)
Capacitance Tolerances	±10%, ±20%
Dissipation Factor	2.5% max. (25°C, 1.0 ±0.2 Vrms at 1kHz)
Operating Temperature Range	-55°C to +125°C
Temperature Characteristic	X7R ±15% (0 VDC)
Voltage Rating	250 VDC Telco rating
Insulation Resistance	1000 megohm-microfarad min.
Dielectric Strength	Minimum 200% rated voltage for 5 seconds at 50 mA max. current

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- View 2225PC125MAT1A on WIN SOURCE
- AVX Corp/Kyocera Corp Information

Optimize Your Supply Chain with WIN SOURCE Solutions

- Global Sourcing Solution
- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management