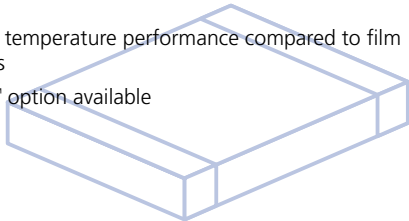


Tip & Ring/Ring Detect capacitors

Syfer's range of 250Vdc chip capacitors is ideal for telephone line filtering (Tip & Ring/Ring Detect) applications.

- Small surface mount package compared to traditional through hole capacitors
- Suitable as replacements for high voltage leaded film capacitors, thereby saving pcb board space and weight
- Low ESR
- Improved temperature performance compared to film capacitors
- FlexiCap™ option available



Capacitance range

	1812	2220	2225
250Vdc	100 - 470nF	180 - 820nF	560nF - 1.0µF

Ordering information - Tip & Ring/Ring Detect capacitors

1812	J	250	0474	K	X	T
Chip size	Termination	Voltage d.c.	Capacitance in picofarads (pF)	Capacitance tolerance	Dielectric codes	Packaging
1812 2220 2225	J = Nickel barrier Y = FlexiCap™ termination base with nickel barrier (100% matte tin plating). RoHS compliant.	250 = 250V	First digit is 0. Second and third digits are significant figures of capacitance code. The fourth digit is number of zeros following. Example: 0474 = 470,000pF = 470nF	J = ±5% K = ±10% M = ±20%	X = X7R	T = 178mm (7") reel R = 330mm (13") reel B = Bulk pack - tubs

Defined Temperature / Voltage Coefficient of Capacitance

X7R capacitors are available from Syfer with a defined capacitance variation under applied dc voltage, across the full operating temperature range. Whilst the capacitance of C0G/NP0 chips does not vary with applied voltage, standard X7R capacitors exhibit capacitance fluctuation, but with no specified limit. For applications where a limit is required, Syfer is able to offer either a "B" code dielectric (conforms to MIL "BX" dielectric and IECQ-CECC "2X1") or "R" code dielectric (conforms to MIL "BZ" dielectric and IECQ-CECC "2C1").

	X7R		
Dielectric characteristics	Stable		
IECQ-CECC	2C1	2R1	2X1
EIA	-	X7R	-
MIL	BZ	-	BX
Rated temperature range	-55°C to +125°C		
Maximum capacitance charge over temperature range			
No DC voltage applied	±20%	±15%	±15%
Rated DC voltage applied	+20-30%	-	+15-25%
Syfer dielectric ordering code	R	X	B

For part numbering, the "X" denoting the X7R dielectric code needs to be replaced by either "B" or "R". Please contact the Sales Office for full range information.