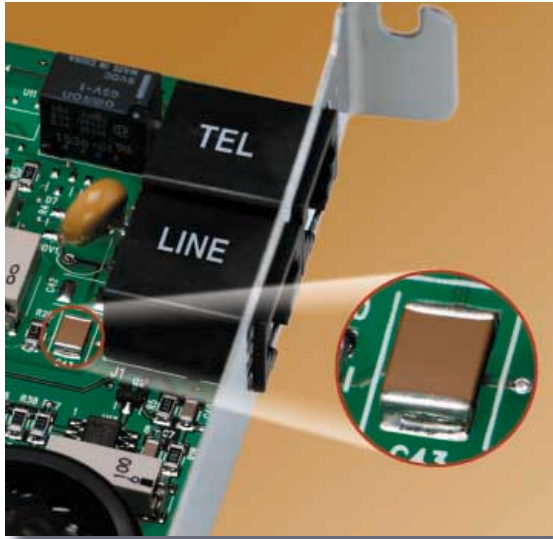


# TIP & RING CHIP CAPACITORS



The Tip & Ring MLCC series are designed specifically for telecom ringer circuit applications where it is necessary to provide a block of the line voltage (typically -48 VDC) while passing the AC ringing voltage. These compact ceramic SMD chips replace bulky leaded film caps saving board space and stream-lining the assembly process.

## KEY FEATURES

- Blocks Off-hook DC Voltage
- Passes AC Ring Signal
- 250 VDC & 300 VDC Ratings For Telecom Interface
- Choice of SMD Chip Sizes
- Low ESR versus Frequency
- Stable Temperature Performance (X7R)

## CAPACITANCE SELECTION -1812-2225 SIZE

DIELECTRIC	S43 / 1812		S49 / 1825		S47 / 2220		S48 / 2225	
	INCHES	(mm)	INCHES	(mm)	INCHES	(mm)	INCHES	(mm)
X7R	L .175 ±.010	(4.45 ±.25)	L .180 ±.010	(4.57 ±.25)	L .225 ±.010	(5.72 ±.25)	L .225 ±.010	(5.72 ±.25)
Z5U	W .125 ±.010	(3.17 ±.25)	W .250 ±.010	(6.35 ±.25)	W .200 ±.010	(5.08 ±.25)	W .250 ±.010	(6.35 ±.25)
	T .085 Max.	(2.16)	T .110 Max.	(2.80)	T .110 Max.	(2.80)	T .110 Max.	(2.80)
	E/B .025 ±.015	(0.64±.38)	E/B .025 ±.015	(0.64±.38)	E/B .025 ±.015	(0.64±.38)	E/B .025 ±.015	(0.64±.38)
	250 VDC	300 VDC	250 VDC	300 VDC	250 VDC	300 VDC	250 VDC	300 VDC
.047 µF	█	█						
.056 µF	█	█						
.068 µF	█	█						
.082 µF		█						
.10 µF	█	█	█	█	█	█	█	█
.12 µF	█	█		█		█		█
.15 µF	█	█		█		█		█
.18 µF	█	█		█		█		█
.22 µF	█	█		█		█		█
.27 µF	█	█		█		█		█
.33 µF	█	█		█		█		█
.39 µF		█		█		█		█
.47 µF		█		█		█		█
.56 µF		█		█		█		█
.68 µF		█		█		█		█
.82 µF		█		█		█		█
1.00 µF		█		█		█		█
1.20 µF		█		█		█		█
1.50 µF		█		█		█		█

Please contact the factory for capacitance, voltage, case size combinations not shown.  
Dielectric specifications are listed on page 28 & 29 except DWV = 2.0 X rated VDC.

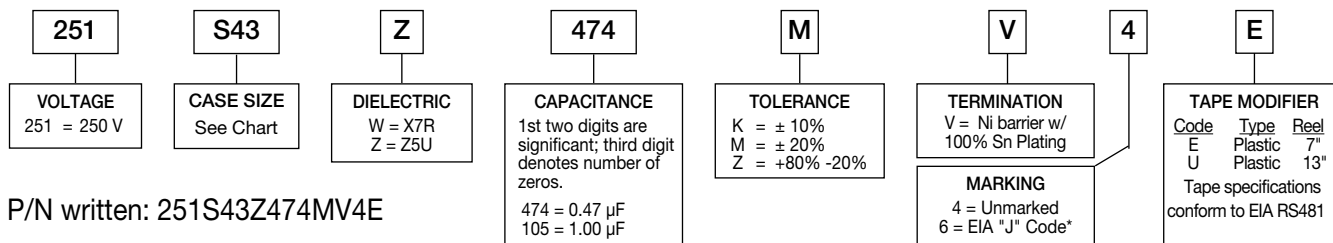
# TIP & RING CHIP CAPACITORS

## CAPACITANCE SELECTION - 0805-1808 SIZE

DIELECTRIC	R15 / 0805		R18 / 1206		S41 / 1210		R29 / 1808	
	INCHES	(mm)	INCHES	(mm)	INCHES	(mm)	INCHES	(mm)
X7R	L	.080 ±.010 (2.03 ±.25)	L	.125 ±.010 (3.17 ±.25)	L	.125 ±.010 (3.18 ±.25)	L	.180 ±.010 (4.57 ±.25)
	W	.050 ±.010 (1.27 ±.25)	W	.062 ±.010 (1.57 ±.25)	W	.095 ±.010 (2.41 ±.25)	W	.080 ±.010 (2.41 ±.25)
	T	.050 Max. (1.27)	T	.055 Max. (1.40)	T	.065 Max. (1.65)	T	.065 Max. (1.65)
	E/B	.020 ±.010 (0.51±.25)	E/B	.020 ±.010 (0.51±.25)	E/B	.020 ±.010 (0.51±.25)	E/B	.020 ±.010 (0.51±.25)
	250 VDC	300 VDC	250 VDC	300 VDC	250 VDC	300 VDC	250 VDC	300 VDC
	1000 pF							
	1200 pF							
	1500 pF							
	1800 pF							
	2200 pF							
	2700 pF							
	3300 pF							
	3900 pF							
	4700 pF							
	5600 pF							
	8200 pF							
	.010 µF							
	.012 µF							
	.015 µF							
	.018 µF							
	.022 µF							
	.027 µF							
	.033 µF							
	.039 µF							
	.047 µF							
	.056 µF							
	.068 µF							
	.082 µF							
	0.10 µF							

Please contact the factory for capacitance, voltage, case size combinations not shown.  
Dielectric specifications are listed on page 28 & 29 except DWV = 2.0 X rated VDC.

## HOW TO ORDER TIP & RING



P/N written: 251S43Z474MV4E

