



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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 Ratings For Telecom Interface
- Choice of SMD Chip Sizes
- Low ESR versus Frequency
- Stable Temperature Performance (X7R)

CAPACITANCE SELECTION -1812-2225 SIZE

DIELECTRIC X7R	S43 / 1812		S49 / 1825		S47 / 2220		S48 / 2225	
	INCHES	(mm)	INCHES	(mm)	INCHES	(mm)	INCHES	(mm)
	L .175 ±.010	(4.45 ±.25)	L .180 ±.010	(4.57 ±.25)	L .225 ±.010	(5.72 ±.25)	L .225 ±.010	(5.72 ±.25)
	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 .125 Max.	(3.17)	T .140 Max.	(3.55)	T .140 Max.	(3.55)	T .140 Max.	(3.55)
	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		250 VDC		250 VDC		250 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.

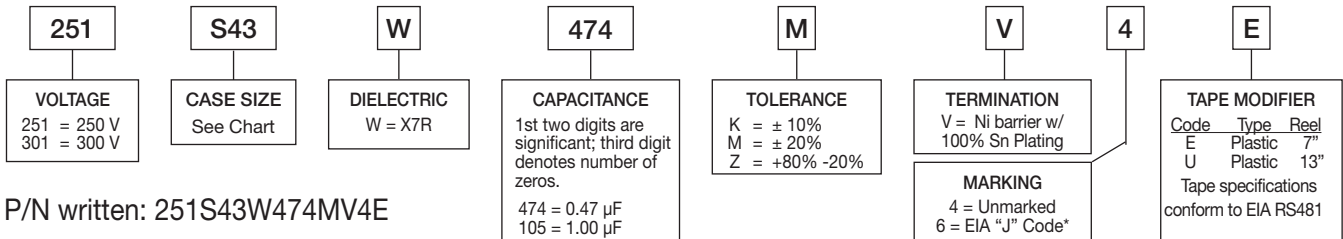
TIP & RING CHIP CAPACITORS

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		250 VDC		250 VDC		250 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							
	0.22 µF							
	0.27 µF							

Please contact the factory for capacitance, voltage, case size combinations not shown.

HOW TO ORDER TIP & RING



P/N written: 251S43W474MV4E

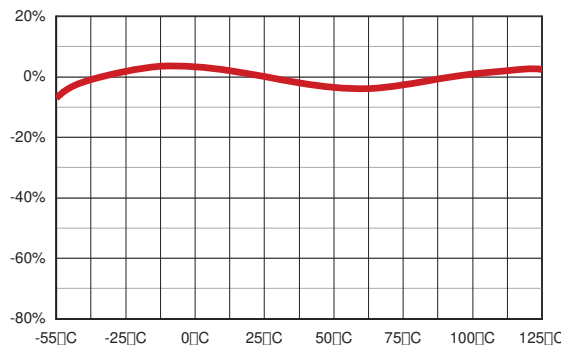


TIP & RING CHIP CAPACITORS

X7R DIELECTRIC CHARACTERISTICS

TEMPERATURE COEFFICIENT:	$\pm 15\%$, -55 to +125°C
DISSIPATION FACTOR:	For ≥ 50 Volts: 2.5% max For 25 Volts: 3.0% max For 16 Volts: 3.5% max
AGING:	2.5% / decade hour
INSULATION RESISTANCE:	1000 Ω F or 100 G Ω , whichever is less @ 25°C, WVDC (500 Ω F or 10 G Ω for Tanceram® capacitors) 125°C IR is 10% of 25°C rating.
DIELECTRIC STRENGTH:	2.5 X rated voltages of 6 to 200 VDC 2.0 X rated voltages of 201 to 499 VDC 1.5 X rated voltages of 500 to 999 VDC 1.2 X rated voltages of 1000 VDC or higher.
TEST PARAMETERS:	1kHz ± 50 Hz, 1.0 ± 0.2 VRMS, 25°C

X7R CAP. VS TEMPERATURE



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