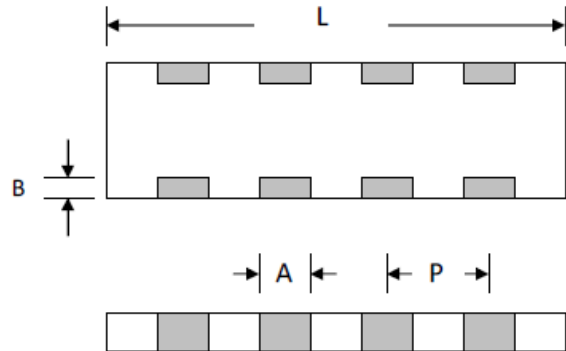


# CHIP CAPACITOR ARRAY

## CA TYPE

### FEATURES

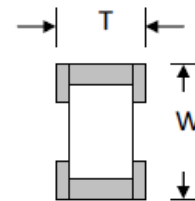
- Two standard sizes.
- Less than 50% board space of an equivalent discrete component.
- High volumetric efficiency.
- Dense dielectric layers.
- Supplied in tape on reel or loose in bag.
- Increased throughput, by time saved in mounting.
- Cost savings on manufacturing time.
- Reel quantity is 4Kpcs per reel for CA0603 and 10Kpcs for CA0402.



### DIMENSIONS

Unit : mm

TYPE	L	W	T		A	B	P
			MIN.	MAX.			
CA0402 (4X0402)	2.0±0.15	1.25±0.15	0.6	0.95	0.28±0.1	0.20±0.10	0.5±0.10
CA0603 (4X0603)	3.2±0.15	1.60±0.15	0.80	1.20	0.40±0.1	0.30±0.15	0.8±0.15



TYPE	NPO (±5%, ±10%)	X7R (±10%, ±20%)	Y5V (-20%~+80%)
CA0402	15PF~270PF	1NF (50V) 10NF~47NF (16V)	-
CA0603	10PF~1NF	220PF~100NF	10NF~100NF

### CHARACTERISTICS

IEC384-10	TEST	CONDITIONS	REQUIREMENTS		
			NPO	X7R	Y5V
4.9	Bending	Bending rate 1mm/s, jig, Radius 340mm	$\Delta C/C \leq 1\%$	$\Delta C/C \leq 10\%$	$\Delta C/C \leq 20\%$
4.10	Resistance to soldering heat	260±5°C for 10±0.5s in static solder bath	$\Delta C/C \leq 0.5\%$ or 0.5pF, whichever is greater	-5% ≤ $\Delta C/C$ ≤ 10%	-10% ≤ $\Delta C/C$ ≤ 20%
4.11	Solderability	235±5°C for 2±0.5s in a static solder bath	75% minimum coverage of metallic area		
4.12	Rapid change in temperature	NPO/X7R: -55°C to +125°C, 5 cycles Y5V: -25°C to +85°C, 5 cycles	$\Delta C/C \leq 1\%$ or 1pF, whichever is greater	$\Delta C/C \leq 15\%$	$\Delta C/C \leq 20\%$
4.14	Damp heat, Steady state	At 40°C, 90 to 95% RH and Ur Applied for 56 days	$\Delta C/C$ ; 2% or 1pF whichever is greater $\tan \delta \leq 2 \times$ specified Value IR: 2500MΩ or RxC ≥ 25s whichever is less	$\Delta C/C$ ; ≤ 15% $\tan \delta \leq 7\%$ IR: 1000MΩ or RxC ≥ 25s whichever is less	$\Delta C/C$ ; ≤ 30% $\tan \delta \leq 7\%$ IR: 1000MΩ or RxC ≥ 25s whichever is less
4.15	Endurance	At upper category temperature 2xUr applied for 42 days	$\Delta C/C$ ; 2% or 1pF whichever is greater $\tan \delta \leq 2 \times$ specified Value IR: 4000MΩ or RxC ≥ 40s whichever is less	$\Delta C/C$ ; ≤ 15% $\tan \delta \leq 7\%$ IR: 2000MΩ or RxC ≥ 50s whichever is less	$\Delta C/C$ ; ≤ 30% $\tan \delta \leq 7\%$ IR: 2000MΩ or RxC ≥ 50s whichever is less