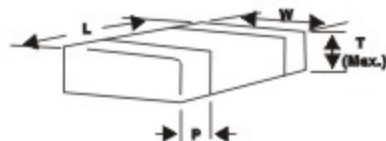


NPO (COG) DIELECTRIC Ceramic Capacitors Multilayer Chips



FEATURES

- NPO is an Ultra-Stable dielectric offering TCC of $0 \pm 30\text{PPM}/^\circ\text{C}$ over the entire temperature range
- Excellent High frequency performance
- Low dissipation factor
- Ideal for timed R-C circuits and critical tuning applications
- RoHS Compliance

DIMENSIONS [NUMBERS IN BRACKETS INDICATES MILLIMETERS]

EIA CODE	LENTH(L)	WIDTH(W)	THICKNESS(T)* Max.	MAX TERMINATION(P)	
				Min.	Max.
0201	.024±.001[0.60±0.03]	.012±.001[0.30±0.03]	.012[0.30]	.006[0.15]	.005[0.12]
0402	.040±.002[1.00±0.10]	.020±.004[0.50±0.10]	.024[0.61]	.008[0.20]	.012[0.30]
0603	.063±.005[1.60±0.12]	.031±.005[0.80±0.12]	.035[0.80]	.010[0.25]	.026[0.65]
0805	.074±.008[2.00±0.20]	.049±.008[1.25±0.20]	.051[1.30]	.010[0.25]	.028[0.71]
1206	.126±.010[3.20±0.25]	.063±.010[1.60±0.25]	.059[1.50]	.010[0.25]	.028[0.71]
1210	.126±.016[3.20±0.40]	.100±.016[2.50±0.40]	.067[1.70]	.010[0.25]	.028[0.71]
1812	.177±.016[4.50±0.40]	.126±.016[3.20±0.40]	.067[1.70]	.010[0.25]	.030[0.76]

*The thickness may be high for newly developed products, check website for new specifications.

APPLICATIONS

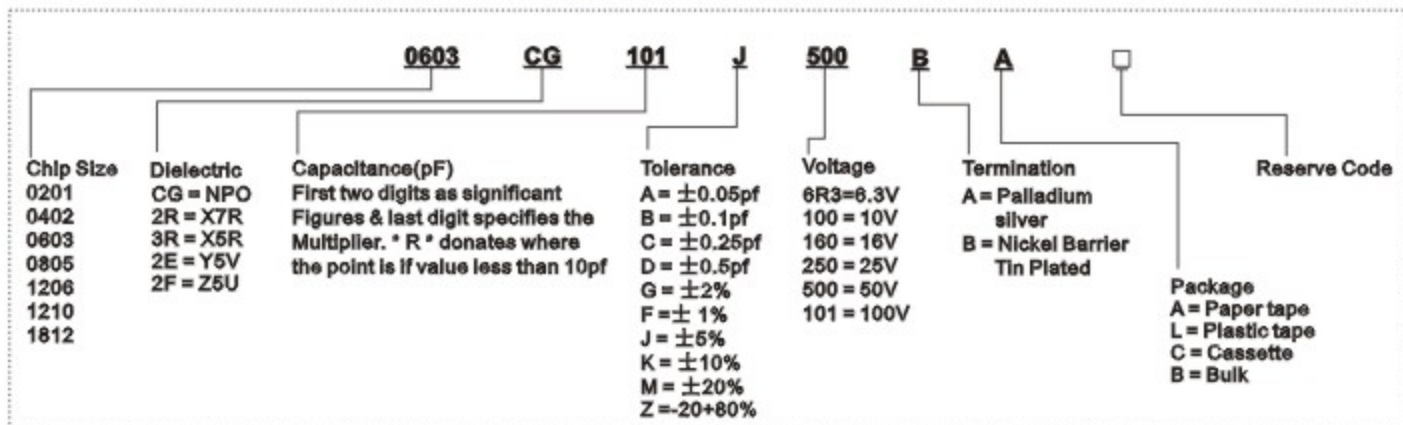
Used for RF oscillating, precision timing & ultrastable amplify in such products like

- Consumer Electronics
- Telecommunications
- Auto movtives
- Data Processing
- PDA and etc...

QUICK REFERENCE DATA

DESCRIPTION	VACUE
Rated Voltage U_R (DC)	6.3v, 10v, 16v, 25v, 50v, 100v (IEC)
Capacitance Range (E12 seles)	0.5pF~0.10uF
Tolerance $c \geq 10\text{pf}$ $c < 10\text{pf}$	$\pm 1\%$, $\pm 2\%$ $\pm 5\%$ $\pm 10\%$ $\pm 0.05\text{pf}$, $\pm 0.1\text{pf}$, $\pm 0.25\text{pf}$, $\pm 0.5\text{pf}$
Test Voltage (DC) For 1 min under 100v	$2.5 \cdot U_R$
Detail Specifications	based on CECC 32 101-801

PART NUMBERING SYSTEM



NPO(COG) DIELECTRIC 容值选择表

EIA CODE		0201			0402			0603			0805			1206			1210			1812		
Voltage (dc)		16	25	50	16	25	50	16	25	50	25	50	100	25	50	100	50	100	250	50	100	250
Capacitance Code	Capacitance																					
0R5	0.5pF																					
1R0	1.0pF																					
1R2	1.2pF																					
1R5	1.5pF																					
1R8	1.8pF																					
2R2	2.2pF																					
2R7	2.7pF																					
3R3	3.3pF																					
3R9	3.9pF																					
4R7	4.7pF																					
5R6	5.6pF																					
6R8	6.8pF																					
8R2	8.2pF																					
100	10pF																					
120	12pF																					
150	15pF																					
180	18pF																					
200	20pF																					
220	22pF																					
270	27pF																					
330	33pF																					
390	39pF																					
470	47pF																					
560	56pF																					
680	68pF																					
820	82pF																					
101	100pF																					
121	120pF																					
151	150pF																					
181	180pF																					
201	200pF																					
221	220pF																					
271	270pF																					
331	330pF																					
391	390pF																					
471	470pF																					
561	560pF																					
681	680pF																					
821	820pF																					
102	1000pF																					
122	1200pF																					
152	1500pF																					
182	1800pF																					
222	2200pF																					
272	2700pF																					
332	3300pF																					
392	3900pF																					
472	4700pF																					
562	5600pF																					
682	6800pF																					
822	8200pF																					
103	.010 μ F																					
223	.022 μ F																					
473	.047 μ F																					
104	.100 μ F																					

NPO (COG) DIELECTRIC - TYPICAL PARAMETERS

