

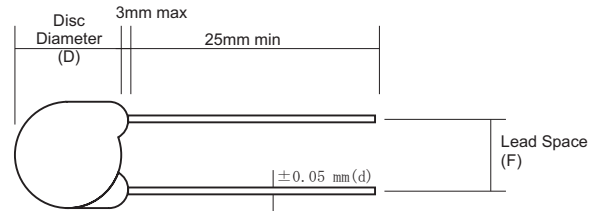
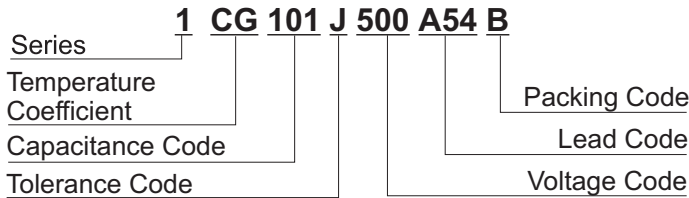
INTRODUCTION

Single layer metalized ceramic disc with resin coating (wax impregnated) below 1KV or epoxy coated 1KV up. Class1 material is the most temperature stable

FEATURES

- Low Capacitance 0.5pf~1200pf
- High Q
- High Temperature Stability
- Resonant Circuit Applications
- Timing Circuit Applications

PART NUMBER EXAMPLE



DIMENSIONS (mm) & CAPACITANCE RANGE

(F: Standard Lead Spacing. Other lead spacing may be available upon request.)

Thickness	Voltage	4.0 mm max.																
		50 / 100V		500V/630V		1KV		5.0 2KV		6.5 3KV		8.0 5K / 6KV						
Cap (pf)	Code	CG	SL	CG	SL	CG	SL	CG	SL	CG	SL	CG	SL					
0.5	0R5	D=5 F=2.5		D=5 F=2.5		D=5 F=2.5		D=6 F=5.0		D=7 F=5.0		D=7 F=9.5						
1	1R0																	
5.1	5R1																	
10	100																	
12	120			D=6 F=5.0		D=6 F=5.0		D=6 F=5.0		D=7 F=6.35		D=8 F=9.5						
15	150																	
18	180			D=5 F=2.5		D=5 F=2.5		D=8 F=6.35		D=9 F=6.35		D=9 F=9.5						
20	200																	
22	220			D=7 F=5.0		D=7 F=5.0		D=10 F=6.35		D=12 F=6.35		D=10 F=9.5						
24	240																	
27	270			D=6 F=2.5		D=6 F=2.5		D=10 F=6.35		D=12 F=6.35		D=11 F=9.5						
30	300																	
33	330			D=8 F=5.0		D=8 F=5.0		D=12 F=6.35		D=14 F=9.5		D=14 F=9.5						
39	390																	
47	470			D=7 F=5.0		D=7 F=5.0		D=14 F=9.5		D=18 F=9.5		D=13 F=6.35						
51	510																	
56	560			D=9 F=5.0		D=9 F=5.0		D=12 F=6.35		D=14 F=9.5		D=13 F=6.35						
62	620																	
68	680			D=8 F=5.0		D=8 F=5.0		D=12 F=6.35		D=14 F=9.5		D=13 F=6.35						
75	750																	
82	820			D=10 F=5.0		D=10 F=5.0		D=18 F=9.5		D=18 F=9.5		D=14 F=6.35						
91	910																	
100	101			D=9 F=5.0		D=9 F=5.0		D=18 F=9.5		D=18 F=9.5		D=14 F=6.35						
120	121																	
130	131			D=10 F=5.0		D=10 F=5.0		D=18 F=9.5		D=18 F=9.5		D=14 F=6.35						
150	151																	
180	181			D=12 F=5.0		D=12 F=5.0		D=18 F=9.5		D=18 F=9.5		D=14 F=6.35						
200	201																	
220	221			D=8 F=5.0		D=8 F=5.0		D=18 F=9.5		D=18 F=9.5		D=14 F=6.35						
240	241																	
270	271			D=9 F=5.0		D=9 F=5.0		D=18 F=9.5		D=18 F=9.5		D=14 F=6.35						
300	301																	
330	331			D=12 F=5.0		D=12 F=5.0		D=18 F=9.5		D=18 F=9.5		D=14 F=6.35						
390	391																	
470	471			D=9 F=5.0		D=9 F=5.0		D=18 F=9.5		D=18 F=9.5		D=14 F=6.35						
510	511																	
560	561			D=10 F=5.0		D=10 F=5.0		D=18 F=9.5		D=18 F=9.5		D=14 F=6.35						
680	681																	
750	751			D=10 F=5.0		D=10 F=5.0		D=18 F=9.5		D=18 F=9.5		D=14 F=6.35						
850	851																	
1000	102			D=10 F=5.0		D=10 F=5.0		D=18 F=9.5		D=18 F=9.5		D=14 F=6.35						
1200	122																	

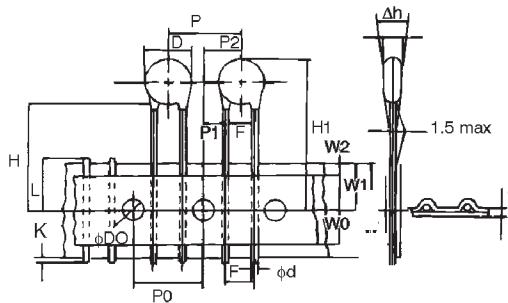
ELECTRICAL CHARACTERISTICS

Technical Data	Condition	Specification
Capacitance	1 MHz \pm 20%, 1 \pm 0.2 Vrms, 25°C \pm 2°C	0.5pF ~ 1200pF
Operating Temperature		-55°C ~ +85°C
Q	COG(NP0) SL C \geq 30pF C<30pF	Q \geq 1000 Q>400 + 20 X C (C is nominal Capacitance)
Insulation Resistance	rated voltage at 25°C \pm \geq °C and 70% R.H max	>10G Ω
Encapsulation	Standard 1KV and higher	Phenolic Wax Epoxy Coating
Solderability of Leads	at least 75 % covered	Solder temperature 260°C \pm 5°C Dipping: 3 \pm 0.5 sec (Flur shall be used)

TEMPERATURE COEFFICIENT CODE

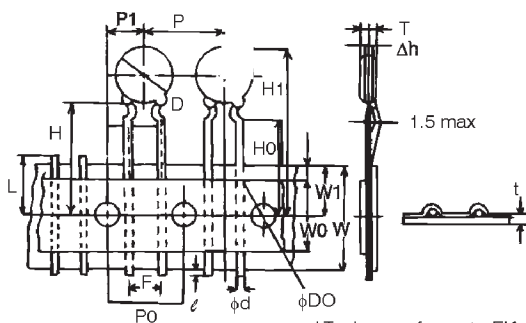
Temperature Characteristics			
Code	EIA Code	Characteristics.	
CG	C0G (NPO)	0 \pm 30 PPM/°C	-55 °C to +85 °C
SL	S2L	-300 +500 PPM/°C	-55 °C to +85 °C
ZU	Z5U	+22 to -56%	+10 °C to +85 °C
ZV	Z5V	+22 to -82%	+10 °C to +85 °C
YE	Y5E	\pm 4.7 %	-30 °C to +85 °C
YP	Y5P	\pm 10 %	-30 °C to +85 °C
YU	Y5U	+22 to -56%	-30 °C to +85 °C
YV	Y5V	+22 to -82%	-30 °C to +85 °C
XR	X7R	\pm 15 %	-55 °C to +125 °C

RADIAL STRAIGHT-LEAD ON TAPE (S56 LEAD CODE)



RADIAL KINK-IN ON TAPE (K56 LEAD CODE)

*Most Popular



*Taping conforms to EIA-468

Code	Dimensions
D	11.0 max
d	0.6 \pm 0.05
P	12.7 \pm 1.0
P0	12.7 \pm 0.3
P1	3.85 \pm 0.7
P2	6.35 \pm 1.3
F	5.0 +0.8 -0.2
Δ h	0 \pm 2.0
W	18.0 +1.0 -0.5
W1	9.0 +0.75 -0.5
W2	3.0 max
H	18.0 +3.0 -0
H0	16.0 \pm 0.5
H1	32.25 max
K	1.0 max
D0	4.0 \pm 0.2
t	0.7 \pm 0.2
L	11.0 max

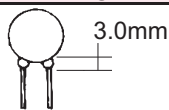
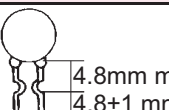
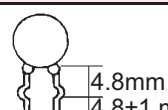
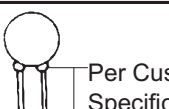
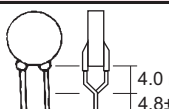
TOLERANCE CODE

Code	Tolerance
C	±0.25pF
D	±0.5pF
F	±1%
G	±2%
J	±5%
K	±10%
M	±20%

VOLTAGE CODE EXAMPLE

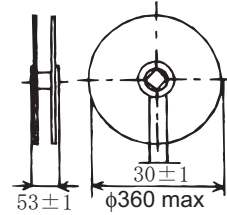
Code	500	501	502
WVDC	50V	500V	5KV

LEAD CODES FOR BULK PACK (CERAMIC DISC ONLY)

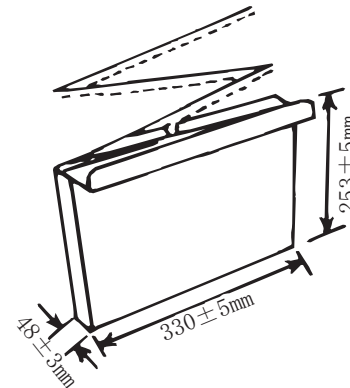
Lead Type		
A-Straight	C-Kink In	D-Kink Out
		
F-Special Length	Y-Y Formed	S & K-Taped
		See taping specifications above.

Lead Spacing (±1.00) in mm		Wire dia. (±0.05) in mm	
Code	P	Code	dφ
2	2.5	4	0.48
5	5	6	0.6
6	6.35	7	0.65
7	7.5	8	0.8
9	10.0	9	1.0
0	12.7		
A	15.0		

REEL PACK (R SUFFIX)



AMMO PACK (A SUFFIX)



HOW TO MAKE THE LEAD CODE FOR CERAMIC DISC (FOR BULK PACK ONLY)

