

CCDC SERIES: Semi-Conducting



INTRODUCTION

Single layer metalized ceramic disc with resin coating (wax impregnated).

CCDC is suitable for low voltage application and offers larger capacitance values

APPLICATION

- Transistorized Circuits
- Low Voltage-by-pass, Coupling.
- Frequency determination where Dielectric losses, Hi-IR and Cap. stability are not of major importance.

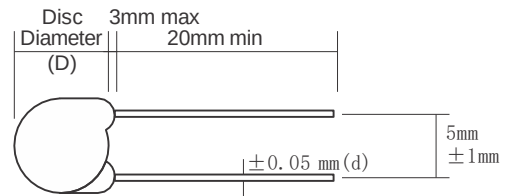
PART NUMBER EXAMPLE

Series **CCDC F** **473** **M** **1B** **A54** **B**

Temperature Coefficient Packing code

Capacitance Code Lead Code

Tolerance Code Voltage Code



DIMENSIONS (mm) & CAPACITANCE RANGE

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

Capacitance	Voltage	12V 1B, 16V 1C		25V 1E			50V 1H		
		Y5U E	Y5V F	Y5P P	Y5U E	Y5V F	Y5P P	Y5U E	Y5V F
0.01	103			4.5 F=5.0	4.5 F=5.0	4.5 F=5.0			4.5 F=5.0
0.022	233				7 F=5.0			F=5.0	
0.033	333				7 F=5.0		7 F=5.0	9 F=6.35	6 F=5.0
0.047	473								
0.068	683			9 F=6.35	8 F=5.0				
0.1	104			7 F=5.0	7 F=5.0	11 F=6.35		13.5 F=9.5	9 F=6.35
0.22	224		9 F=6.35						
0.47	474								

ELECTRICAL CHARACTERISTICS

Technical Data	Condition	Specification
Capacitance	Measured at 1KHz 0.05 VRMS, 25°C ± 2°C	0.01uF-0.47uF
Operating Temperature	Y5U, Y5V, Y5P	-30°C ~ + 85°C
Dissipation Factor (tanS)	Y5U, Y5V, Y5P	< 0.05
Insulation Resistance	rated voltage at 25°C ± >°C and 70% R.H max 16Vdc, product voltage is 25Vdc	>1GΩ or 20MΩ Farad, whichever is less
Encapsulation	Standard	Phenolic Wax Epoxy Coating
Solderability of Leads	at least 75 % covered	Solder temperature 250°C ± 5°C Dipping: 3±0.5 sec (Flur shall be used)



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TEMPERATURE COEFFICIENT CODE

Temperature Characteristics			
Code	EIA Code	Characteristics.	
P	Y5P	±10 %	-30°C to +85°C
E	Y5U	+22 to -56%	-30°C to +85°C
F	Y5V	+22 to -82%	-30°C to +85°C

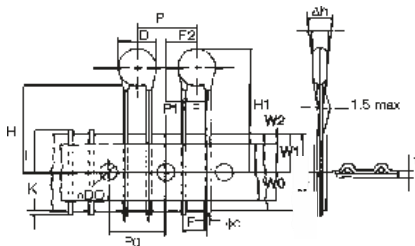
TOLERANCE CODE

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

VOLTAGE CODE EXAMPLE

Code	1B	1H
WVDC	12V	50V

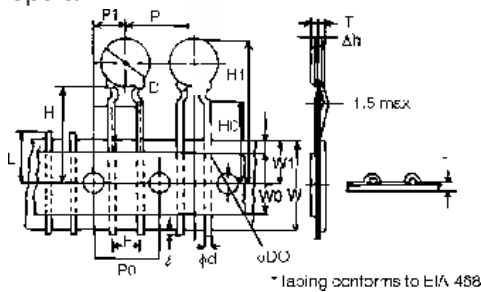
RADIAL STRAIGHT-LEAD ON TAPE (S56 LEAD CODE)



Code	Dimensions
D	11.0 max
d	0.6 ±0.05
P	12.7 ±1.0
P0	12.7 ±0.3
P1	3.85 ±0.7
P2	6.35 ±1.3
F	5.0 +0.8 -0.2
Dh	0 ±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 ±0.5
H1	32.25 max
K	1.0 max
D0	4.0 ±0.2
t	0.7 ±0.2
L	11.0 max

RADIAL KINK-IN ON TAPE (K56 LEAD CODE)

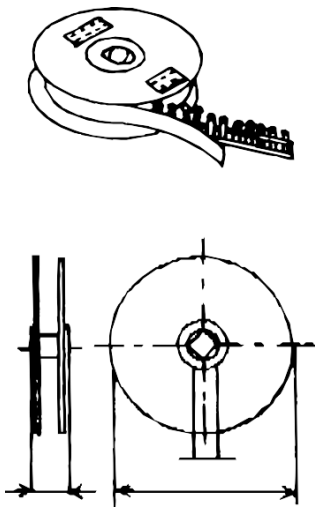
*Most Popular



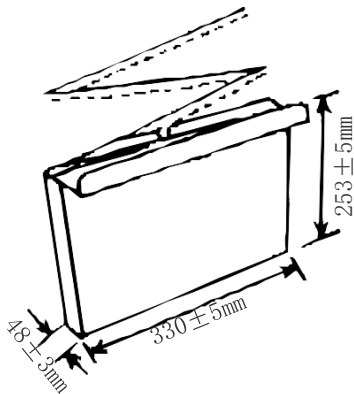


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REEL PACK (R SUFFIX)



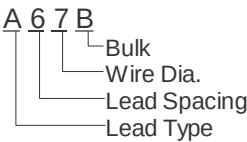
AMMO PACK (A SUFFIX)



LEAD CODES FOR BULK PACK (CERAMIC DISC ONLY)

Lead Type			
A-Straight	C-Kink In	D-Kink Out	
3.0mm	4.8mm max 4.8±1mm		
			4.8mm max
			4.8±1mm
F-Special Length	Y-Y Formed	S & K-Taped	
Per Customer Specification	4.0 mm max 4.8 ±1.0 mm	See taping specifications above.	

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



Lead Spacing (±1.00) in mm		Wire dia. (±0.05) in mm	
Code	P	Code	d
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		