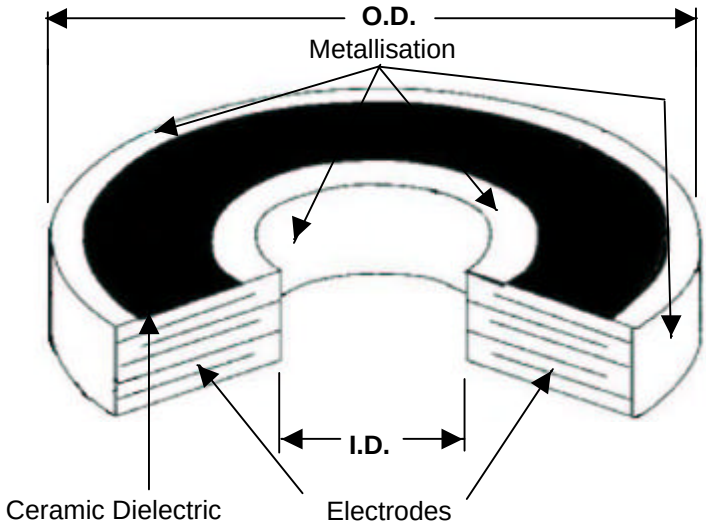
Discoidal Feed-Thru Capacitors



INSTEC discoidal feed-thru capacitors provide high capacitance value in a small footprint and are available in a range of sizes to meet your design needs. The table below outlines maximum capacitance available using X7R ceramic dielectric (our most popular one) for each size at any given voltage. Use prefixes and voltage codes from the table to create a part number.

General Specifications:

* Overall thickness varies with capacitance and voltage. Max. thickness for most unitsis .100" .
* Standard capacitance tolerance: GMV (-0% - +100%) . Other tolerances are available.
* Dissipation factor : 2.5% maximum
* Temperature coefficient : +-15%
* Operating temperature : -55°C to +125°C
* Insulation resistance : @ 25°C, 1000 Mohm / uF ot 100,000 Mohm whichever is less
* Standard metallization : Palladium Silver (Platinum Silver available)
* Dielectric Strength (DWV) : 250% of rated voltage for 5 seconds at 30-50 mA
* Contact factory for other sizes, voltages, capacitances and dielectrics

P/N. Prefix	110	114	120	134	138	160	164
Nominal O.D. (mm)	.104 (2,64)	.140 (3,55)	.200 (5,08)	.345 (8,76)	.380 (9,64)	.600 (15,24)	.640 (16,24)
Nominal I.D. (mm)	.035 (0,89)	.035 (0,89)	0.45 (1,14)	.055 (1,40)	.055 (1,40)	.055 (1,40)	.055 (1,40)
Voltage (voltage code)	Maximun Capacitance (uF)						
50 VDC (A)	.034	.100	.500	2.00	2.50	7.50	8.50
100 VDC (B)	.022	.075	.350	1.40	1.80	4.50	5.00
200 VDC (C)	.0033	.0100	.1000	.3500	.5000	1.500	1.750
300 VDC (D)	.0012	.0040	.0680	.3000	.3300	.8000	.9000
400 VDC (E)	.0005	.0015	.0220	.1500	.1500	.1500	.4000

* .095" I.D. is available in .380" and .600" O.D. for high current designs.

How to build a Part Number

INSTEC discoidal capacitor part number conforms to the following format:

Prefix - Capacitance Code & Voltage Code

Prefixes and voltage codes are indicated in the table above. Capacitance Codes (always as expressed in pF) consists of three numbers: the value (two digits) followed by the number of zeros (one digit).

Thus 220 indicates 22 pF, while 344 indicates 340,000 pF or .34 uF. For example, the P/N:

110-343A

means: .104" O.D., 50 Volts Nominal Voltage and a capacitance value of 34,000 pF GMV. (Guaranteed Minimum Value)