

50V CERAMIC DISC

89000 SERIES

The 89000 series is a range of insulated disc, monolithic fixed ceramic capacitors. They are most commonly used in consumer electronics and telecommunication equipment.

RATINGS

Capacitance Range: 1.0pf to 0.10 μ f (100,000pf)

Voltage: 50 Volts DC

Withstand Voltage: 150 Volts DC

PERFORMANCE SPECIFICATIONS

Operating Temperature Range:

–25°C to +85°C (–13°F to +185°F)

Tolerance Range:

8901D0–89010	±0.5pf
89012–89282	±10%
89310	±20%
89312	±10%
89315	±20%
89322–89410	+80%, –20%

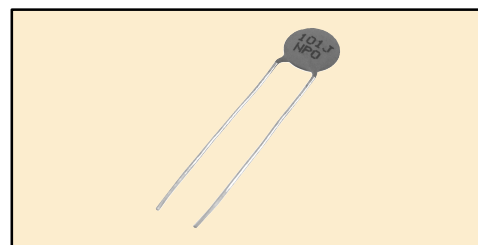
Temperature Coefficient:

8901D0–89110	– NPO (Stable)
89112–89310	– YSP ($\pm 10\%$)
89312–89315	– Y5R ($\pm 15\%$)
89322–89410	– Y5V (+30% – 80%)

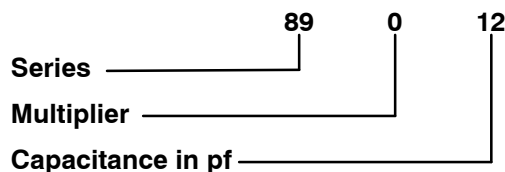
Insulation Resistance: 10,000M Ω Min,
but, 5,000M Ω Min for capacitance over
0.020 μ f

89000 Series Dimensions (Figure 2)

Cap pf	NTE Pt. No.	D $\varnothing$ mm	T mm	S mm	Cap pf	NTE Pt. No.	D $\varnothing$ mm	T mm	S mm
1.0pf	8901D0	4	4	2.5	680pf	89168	4	4	2.5
1.5pf	8901D5	4	4	2.5	820pf	89182	5	4	2.5
2.0pf	8902D0	4	4	2.5	1000pf	89210	5	4	2.5
3.0pf	8903D0	4	4	2.5	1200pf	89212	5	4	2.5
5.0pf	8905D0	4	4	2.5	1500pf	89215	5	4	2.5
6.0pf	8906D0	4	4	2.5	2200pf	89222	5	4	5.1
7.0pf	8907D0	4	4	2.5	3300pf	89233	8	4	5.1
8.0pf	8908D0	4	4	2.5	4700pf	89247	8	4	5.1
10pf	89010	4	4	2.5	5600pf	89256	9.5	4	5.1
12pf	89012	4	4	2.5	6800pf	89268	9.5	4	5.1
15pf	89015	4	4	2.5	8200pf	89282	10.5	3	5.1
18pf	89018	5	4	2.5	0.01 μ f	89310	12.5	3	5.1
22pf	89022	5	4	2.5	0.012 μ f	89312	6.3	4	5.1
33pf	89033	5	4	2.5	0.015 μ f	89315	6.3	4	5.1
39pf	89039	6.3	4	5.1	0.022 μ f	89322	8	4	5.1
47pf	89047	6.3	4	5.1	0.033 μ f	89333	5	4	5.08
56pf	89056	6.3	4	5.1	0.047 μ f	89347	12.5	4	5.1
68pf	89068	8	4	5.1	0.050 μ f	89350	5	4	5.08
82pf	89082	8	4	5.1	0.068 μ f	89368	12.25	3.25	7.5
100pf	89110	8	4	5.1	0.10 μ f	89410	7.3	3.25	5.0
120pf	89112	4	4	2.5					
220pf	89122	4	4	2.5					
330pf	89133	4	4	2.5					
470pf	89147	4	4	2.5					



ORDERING INFORMATION



Example: 8901D5 = 1.5pf
89012 = 12pf
89112 = 120pf

MARKING EXAMPLE

Example: 150pf = 151
1500pf = 152
0.015 μ f = 153

Figure 1

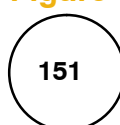


Figure 2

