

# 1000V CERAMIC DISC

## 90000 SERIES

The 90000 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 $\mu$ f (100,000pf)

**Voltage:** 1000 Volts DC

**Withstand Voltage:** 2500 Volts DC

### PERFORMANCE SPECIFICATIONS

**Operating Temperature Range:**

-25°C to +85°C (-13°F to +185°F)

**Tolerance Range:**

9001D0-9009D0	$\pm 0.5$ pf
90010-90210	$\pm 5\%$
90212-90220	+80%, -20%
90222	$\pm 20\%$
90227-90410	+80%, -20%

**Temperature Coefficient:**

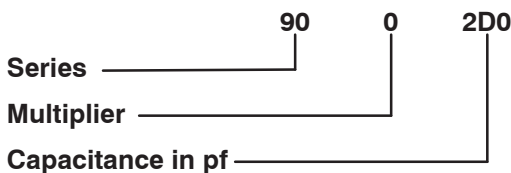
9001D0-90091	- SL
90110-90118	- Y5F
90122-90210	- Y5P
90212-90220	- Z5V
90222	- Z5U
90227-90410	- Z5V

**Insulation Resistance:** 7500M $\Omega$  Min  
measured after 1 Minute at rated voltage

### 90000 Series Dimensions (Figure 2)

Cap pf	NTE Pt. No.	D $\emptyset$ mm	S mm	Cap pf	NTE Pt. No.	D $\emptyset$ mm	S mm
1.0pf	9001D0	5	7.5	270pf	90127	6	7.5
2.0pf	9002D0	6	7.5	300pf	90130	5	6.35
2.2pf	9002D2	5	7.5	330pf	90133	6	7.5
2.7pf	9002D7	5	7.5	390pf	90139	6	7.5
3.0pf	9003D0	5	7.5	400pf	90140	5	6.35
3.3pf	9003D3	6	7.5	430pf	90143	6	7.5
4.0pf	9004D0	5	7.5	470pf	90147	5	7.5
4.7pf	9004D7	5	7.5	500pf	90150	6	7.5
5.0pf	9005D0	5	7.5	560pf	90156	6	7.5
5.6pf	9005D6	5	7.5	680pf	90168	6	7.5
6.2pf	9006D2	5	7.5	750pf	90175	6	7.5
6.8pf	9006D8	5	7.5	820pf	90182	6	7.5
7.5pf	9007D5	5	7.5	910pf	90191	6	7.5
8.0pf	9008D0	6	7.5	1000pf	90210	5	7.5
9.0pf	9009D0	5	7.5	1200pf	90212	5	7.5
10pf	90010	5	7.5	1500pf	90215	5	7.5
12pf	90012	5	7.5	1800pf	90218	6	7.5
13pf	90013	5	7.5	2000pf	90220	6	7.5
15pf	90015	5	7.5	2200pf	90222	6	7.5
18pf	90018	5	7.5	2700pf	90227	7	7.5
20pf	90020	5	7.5	3000pf	90230	7	7.5
22pf	90022	5	7.5	3300pf	90233	7	7.5
24pf	90024	6	7.5	3900pf	90239	7	7.5
27pf	90027	5	7.5	4300pf	90243	7	7.5
30pf	90030	5	7.5	4700pf	90247	8	7.5
33pf	90033	5	7.5	5000pf	90250	8	7.5
39pf	90039	5	7.5	5600pf	90256	8.5	7.5
47pf	90047	5	7.5	6800pf	90268	10.5	7.5
50pf	90050	5	6.35	7500pf	90275	10.5	7.5
56pf	90056	5	7.5	8200pf	90282	10.5	7.5
62pf	90062	5	7.5	0.010 $\mu$ f	90310	10.5	7.5
68pf	90068	5	7.5	0.015 $\mu$ f	90315	10.5	7.5
75pf	90075	6	7.5	0.020 $\mu$ f	90320	11.0	7.5
82pf	90082	6	7.5	0.022 $\mu$ f	90322	13.5	7.5
91pf	90091	6	7.5	0.030 $\mu$ f	90330	13.5	8.5
100pf	90110	5	7.5	0.033 $\mu$ f	90333	13.5	7.5
120pf	90112	5	7.5	0.036 $\mu$ f	90336	13.5	8.5
150pf	90115	5	7.5	0.047 $\mu$ f	90347	16.5	10.5
180pf	90118	5	7.5	0.050 $\mu$ f	90350	16.5	10.5
200pf	90120	5	6.35	0.10 $\mu$ f	90410	20.0	10.5
220pf	90122	5	7.5				
250pf	90125	6	7.5				

### ORDERING INFORMATION



Example: 9002D0 = 2.0pf  
90220 = 2000pf  
90347 = 0.047 $\mu$ f

### MARKING EXAMPLE

Example: 2pf = 2  
2000pf = 202  
0.047 $\mu$ f = 473

### Figure 1

