# **Type T High Voltage Paper-Film/Foil Capacitors**

### **Paper-Film/Foil Capacitors for High Voltage Filter Applications**



Type T capacitors are for high voltage filter applications as well as being used for filtering, bypass and blocking in radar amplifiers and power supplies. The Type T is constructed with a rugged inserted tab to foil connection to 10-32 screw terminals surrounded by thermoset plastic bushings for high voltage performance in an oval, hermetically seald metal case that will give long operating life under harsh conditions.

#### **Highlights**

- · Hermetically sealed
- High Voltage to 5 kVdc
- High Temperature, 105 °C operation with derating

**Specifications** 

Capacitance Range0.1μF to 15.0 μF		
Capacitance Tolerance	±10%	
Rated Voltage	600 Vdc to 5000 Vdc	
Operating Temperature Range  -55 °C to 105 °C — Full rated voltage to 85 °C.  Derate linearly to 50% rated voltage at max temp.		
Rohs Compliant		

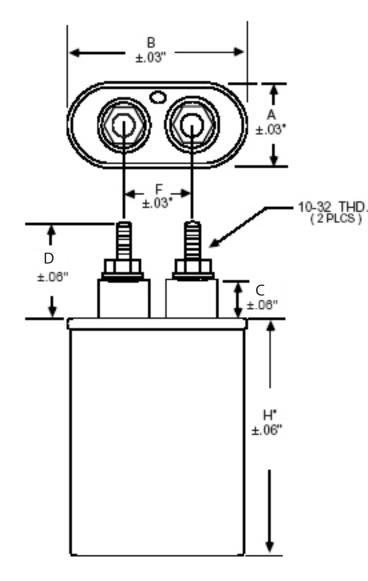
**Ratings** 

Code   Code	Cap	Catalog	Case	Case H			
0.5       T6P5NR-F       A       2.13         1.0       T6W1NR-F       A       2.13         2.0       T6W2NR-F       A       2.13         3.0       T6W3NR-F       A       2.38         4.0       T6W4NR-F       A       2.63         6.0       T6W6NR-F       A       3.88         8.0       T6W8NR-F       C       2.88         10.0       T6W10NR-F       C       3.13         15.0       T6W15NR-F       D       3.50         1000 Vdc         0.10       T10P1NR-F       A       2.13         0.25       T10P25NR-F       A       2.13         0.50       T10P5NR-F       A       2.13         1.0       T10W1NR-F       A       2.13         2.0       T10W2NR-F       A       2.63         4.0       T10W4NR-F       C       3.50         10.0       T10W10NR-F       D       3.88         15.0       T10W15NR-F       D       5.25         1500 Vdc         0.5       T15P5NR-F       A       2.13         1.0       T15W1NR-F       A       2.13         2.	(μ <b>F</b> )	Part Number	Code	(Inches)			
1.0 T6W1NR-F A 2.13 2.0 T6W2NR-F A 2.13 3.0 T6W3NR-F A 2.38 4.0 T6W4NR-F A 2.63 6.0 T6W6NR-F A 3.88 8.0 T6W8NR-F C 2.88 10.0 T6W10NR-F C 3.13 15.0 T6W15NR-F D 3.50  1000 Vdc  0.10 T10P1NR-F A 2.13 0.25 T10P25NR-F A 2.13 0.50 T10W1NR-F A 2.13 1.0 T10W1NR-F A 2.13 2.0 T10W2NR-F A 2.63 4.0 T10W4NR-F C 3.50 8.0 T10W6NR-F C 3.50 8.0 T10W8NR-F D 3.50 10.0 T10W10NR-F D 3.88 15.0 T10W15NR-F D 5.25  1500 Vdc  0.5 T15P5NR-F A 2.13 2.0 T15W1NR-F A 2.13 2.0 T15W1NR-F D 3.88 15.0 T15W1NR-F A 2.13 2.0 T15W1NR-F A 2.13 2.0 T15W2NR-F A 3.13 4.0 T15W4NR-F C 3.13	600 Vdc						
2.0       T6W2NR-F       A       2.13         3.0       T6W3NR-F       A       2.38         4.0       T6W4NR-F       A       2.63         6.0       T6W6NR-F       A       3.88         8.0       T6W8NR-F       C       2.88         10.0       T6W10NR-F       C       3.13         15.0       T6W15NR-F       D       3.50         1000 Vdc         0.10       T10P1NR-F       A       2.13         0.25       T10P25NR-F       A       2.13         0.50       T10P5NR-F       A       2.13         1.0       T10W1NR-F       A       2.63         4.0       T10W2NR-F       A       2.63         4.0       T10W6NR-F       C       3.50         8.0       T10W8NR-F       D       3.50         10.0       T10W10NR-F       D       3.88         15.0       T10W15NR-F       D       5.25         1500 Vdc         0.5       T15P5NR-F       A       2.13         1.0       T15W1NR-F       A       2.13         1.0       T15W4NR-F       A       3.13	0.5	T6P5NR-F	Α	2.13			
3.0 T6W3NR-F A 2.38 4.0 T6W4NR-F A 2.63 6.0 T6W6NR-F A 3.88 8.0 T6W8NR-F C 2.88 10.0 T6W10NR-F C 3.13 15.0 T6W15NR-F D 3.50  1000 Vdc  0.10 T10P1NR-F A 2.13 0.25 T10P25NR-F A 2.13 0.50 T10P5NR-F A 2.13 1.0 T10W1NR-F A 2.13 2.0 T10W2NR-F A 2.63 4.0 T10W4NR-F A 4.25 6.0 T10W6NR-F C 3.50 8.0 T10W6NR-F D 3.88 15.0 T10W15NR-F D 5.25  1500 Vdc  0.5 T15P5NR-F A 2.13 2.0 T15W2NR-F A 2.13 1.0 T15W1NR-F A 3.88 15.0 T15W15NR-F A 3.88 15.0 T15W15NR-F A 3.13 1.0 T15W1NR-F A 3.13 1.0 T15W1NR-F A 3.13 1.0 T15W4NR-F C 3.13 1.0 T15W4NR-F C 3.13	1.0	T6W1NR-F	Α	2.13			
4.0 T6W4NR-F A 2.63 6.0 T6W6NR-F A 3.88 8.0 T6W8NR-F C 2.88 10.0 T6W10NR-F C 3.13 15.0 T6W15NR-F D 3.50  1000 Vdc  0.10 T10P1NR-F A 2.13 0.25 T10P25NR-F A 2.13 0.50 T10P5NR-F A 2.13 1.0 T10W1NR-F A 2.63 4.0 T10W4NR-F A 4.25 6.0 T10W6NR-F C 3.50 8.0 T10W6NR-F D 3.50 10.0 T10W10NR-F D 3.88 15.0 T10W15NR-F D 3.88 15.0 T15P5NR-F A 2.13 2.0 T15W2NR-F A 2.13 2.0 T15W4NR-F D 3.88 15.0 T15W4NR-F A 2.13 2.0 T15W4NR-F D 3.88 15.0 T15W4NR-F A 2.13 2.0 T15W4NR-F A 2.13 2.0 T15W4NR-F A 3.13 2.0 T15W4NR-F A 3.13 4.0 T15W4NR-F C 3.88	2.0	T6W2NR-F	Α	2.13			
6.0       T6W6NR-F       A       3.88         8.0       T6W8NR-F       C       2.88         10.0       T6W10NR-F       C       3.13         15.0       T6W15NR-F       D       3.50         1000 Vdc         0.10       T10P1NR-F       A       2.13         0.25       T10P25NR-F       A       2.13         0.50       T10P5NR-F       A       2.13         1.0       T10W1NR-F       A       2.63         4.0       T10W2NR-F       A       2.63         4.0       T10W4NR-F       C       3.50         8.0       T10W8NR-F       D       3.50         10.0       T10W10NR-F       D       3.88         15.0       T10W15NR-F       D       5.25         1500 Vdc         0.5       T15P5NR-F       A       2.13         1.0       T15W2NR-F       A       3.13         4.0       T15W4NR-F       C       3.13         6.0       T15W6NR-F       D       3.88	3.0	T6W3NR-F	Α	2.38			
8.0 T6W8NR-F C 2.88 10.0 T6W10NR-F C 3.13 15.0 T6W15NR-F D 3.50  T1000 Vdc  0.10 T10P1NR-F A 2.13 0.25 T10P25NR-F A 2.13 0.50 T10P5NR-F A 2.13 1.0 T10W1NR-F A 2.13 2.0 T10W2NR-F A 2.63 4.0 T10W4NR-F A 4.25 6.0 T10W6NR-F C 3.50 8.0 T10W8NR-F D 3.50 10.0 T10W10NR-F D 3.88 15.0 T10W15NR-F D 5.25  T1500 Vdc  0.5 T15P5NR-F A 2.13 2.0 T15W2NR-F A 2.13 2.0 T15W2NR-F A 3.13 4.0 T15W4NR-F C 3.13 4.0 T15W4NR-F C 3.13 4.0 T15W4NR-F C 3.13	4.0	T6W4NR-F	Α	2.63			
10.0       T6W10NR-F       C       3.13         15.0       T6W15NR-F       D       3.50         1000 Vdc         0.10       T10P1NR-F       A       2.13         0.25       T10P25NR-F       A       2.13         0.50       T10P5NR-F       A       2.13         1.0       T10W1NR-F       A       2.13         2.0       T10W2NR-F       A       2.63         4.0       T10W4NR-F       A       4.25         6.0       T10W6NR-F       C       3.50         8.0       T10W8NR-F       D       3.50         10.0       T10W10NR-F       D       3.88         15.0       T10W15NR-F       D       5.25         1500 Vdc         0.5       T15P5NR-F       A       2.13         1.0       T15W1NR-F       A       2.13         2.0       T15W2NR-F       A       3.13         4.0       T15W4NR-F       C       3.13         6.0       T15W6NR-F       D       3.88	6.0	T6W6NR-F	Α	3.88			
15.0     T6W15NR-F     D     3.50       1000 Vdc       0.10     T10P1NR-F     A     2.13       0.25     T10P25NR-F     A     2.13       0.50     T10P5NR-F     A     2.13       1.0     T10W1NR-F     A     2.63       4.0     T10W4NR-F     A     4.25       6.0     T10W6NR-F     C     3.50       8.0     T10W8NR-F     D     3.50       10.0     T10W10NR-F     D     3.88       15.0     T10W15NR-F     D     5.25       1500 Vdc       0.5     T15P5NR-F     A     2.13       1.0     T15W1NR-F     A     2.13       2.0     T15W2NR-F     A     3.13       4.0     T15W4NR-F     C     3.13       6.0     T15W6NR-F     D     3.88	8.0	T6W8NR-F	C 2.88				
1000 Vdc         0.10       T10P1NR-F       A       2.13         0.25       T10P25NR-F       A       2.13         0.50       T10P5NR-F       A       2.13         1.0       T10W1NR-F       A       2.13         2.0       T10W2NR-F       A       2.63         4.0       T10W4NR-F       A       4.25         6.0       T10W6NR-F       C       3.50         8.0       T10W8NR-F       D       3.50         10.0       T10W10NR-F       D       3.88         15.0       T10W15NR-F       D       5.25         1500 Vdc         0.5       T15P5NR-F       A       2.13         1.0       T15W1NR-F       A       2.13         2.0       T15W2NR-F       A       3.13         4.0       T15W4NR-F       C       3.13         6.0       T15W6NR-F       D       3.88	10.0	T6W10NR-F	C 3.13				
0.10       T10P1NR-F       A       2.13         0.25       T10P25NR-F       A       2.13         0.50       T10P5NR-F       A       2.13         1.0       T10W1NR-F       A       2.13         2.0       T10W2NR-F       A       2.63         4.0       T10W4NR-F       A       4.25         6.0       T10W6NR-F       C       3.50         8.0       T10W8NR-F       D       3.50         10.0       T10W10NR-F       D       3.88         15.0       T10W15NR-F       D       5.25         1500 Vdc         0.5       T15P5NR-F       A       2.13         1.0       T15W1NR-F       A       2.13         2.0       T15W2NR-F       A       3.13         4.0       T15W4NR-F       C       3.13         6.0       T15W6NR-F       D       3.88	15.0	15.0 T6W15NR-F D		3.50			
0.25       T10P25NR-F       A       2.13         0.50       T10P5NR-F       A       2.13         1.0       T10W1NR-F       A       2.13         2.0       T10W2NR-F       A       2.63         4.0       T10W4NR-F       A       4.25         6.0       T10W6NR-F       C       3.50         8.0       T10W8NR-F       D       3.50         10.0       T10W10NR-F       D       3.88         15.0       T10W15NR-F       D       5.25         1500 Vdc         0.5       T15P5NR-F       A       2.13         1.0       T15W1NR-F       A       2.13         2.0       T15W2NR-F       A       3.13         4.0       T15W4NR-F       C       3.13         6.0       T15W6NR-F       D       3.88	1000 Vdc						
0.50         T10P5NR-F         A         2.13           1.0         T10W1NR-F         A         2.13           2.0         T10W2NR-F         A         2.63           4.0         T10W4NR-F         A         4.25           6.0         T10W6NR-F         C         3.50           8.0         T10W8NR-F         D         3.50           10.0         T10W10NR-F         D         3.88           15.0         T10W15NR-F         D         5.25           1500 Vdc           0.5         T15P5NR-F         A         2.13           1.0         T15W1NR-F         A         2.13           2.0         T15W2NR-F         A         3.13           4.0         T15W4NR-F         C         3.13           6.0         T15W6NR-F         D         3.88	0.10	T10P1NR-F	Α	2.13			
1.0       T10W1NR-F       A       2.13         2.0       T10W2NR-F       A       2.63         4.0       T10W4NR-F       A       4.25         6.0       T10W6NR-F       C       3.50         8.0       T10W8NR-F       D       3.50         10.0       T10W10NR-F       D       3.88         15.0       T10W15NR-F       D       5.25         1500 Vdc         0.5       T15P5NR-F       A       2.13         1.0       T15W1NR-F       A       2.13         2.0       T15W2NR-F       A       3.13         4.0       T15W4NR-F       C       3.13         6.0       T15W6NR-F       D       3.88	0.25	T10P25NR-F	Α	2.13			
2.0 T10W2NR-F A 2.63 4.0 T10W4NR-F A 4.25 6.0 T10W6NR-F C 3.50 8.0 T10W8NR-F D 3.50 10.0 T10W10NR-F D 3.88 15.0 T10W15NR-F D 5.25  1500 Vdc  0.5 T15P5NR-F A 2.13 1.0 T15W1NR-F A 2.13 2.0 T15W2NR-F A 3.13 4.0 T15W4NR-F C 3.13 6.0 T15W6NR-F D 3.88	0.50	T10P5NR-F	Α	2.13			
4.0       T10W4NR-F       A       4.25         6.0       T10W6NR-F       C       3.50         8.0       T10W8NR-F       D       3.50         10.0       T10W10NR-F       D       3.88         15.0       T10W15NR-F       D       5.25         1500 Vdc         0.5       T15P5NR-F       A       2.13         1.0       T15W1NR-F       A       2.13         2.0       T15W2NR-F       A       3.13         4.0       T15W4NR-F       C       3.13         6.0       T15W6NR-F       D       3.88	1.0	T10W1NR-F	Α	2.13			
6.0 T10W6NR-F C 3.50 8.0 T10W8NR-F D 3.50 10.0 T10W10NR-F D 3.88 15.0 T10W15NR-F D 5.25  1500 Vdc  0.5 T15P5NR-F A 2.13 1.0 T15W1NR-F A 2.13 2.0 T15W2NR-F A 3.13 4.0 T15W4NR-F C 3.13 6.0 T15W6NR-F D 3.88	2.0	T10W2NR-F	Α	2.63			
8.0 T10W8NR-F D 3.50 10.0 T10W10NR-F D 3.88 15.0 T10W15NR-F D 5.25 T1500 Vdc  0.5 T15P5NR-F A 2.13 1.0 T15W1NR-F A 2.13 2.0 T15W2NR-F A 3.13 4.0 T15W4NR-F C 3.13 6.0 T15W6NR-F D 3.88	4.0	T10W4NR-F	Α	4.25			
10.0     T10W10NR-F     D     3.88       15.0     T10W15NR-F     D     5.25       1500 Vdc       0.5     T15P5NR-F     A     2.13       1.0     T15W1NR-F     A     2.13       2.0     T15W2NR-F     A     3.13       4.0     T15W4NR-F     C     3.13       6.0     T15W6NR-F     D     3.88	6.0	T10W6NR-F	C	3.50			
15.0 T10W15NR-F D 5.25  1500 Vdc  0.5 T15P5NR-F A 2.13 1.0 T15W1NR-F A 2.13 2.0 T15W2NR-F A 3.13 4.0 T15W4NR-F C 3.13 6.0 T15W6NR-F D 3.88	8.0	T10W8NR-F	D	3.50			
1500 Vdc       0.5     T15P5NR-F     A     2.13       1.0     T15W1NR-F     A     2.13       2.0     T15W2NR-F     A     3.13       4.0     T15W4NR-F     C     3.13       6.0     T15W6NR-F     D     3.88	10.0	T10W10NR-F	D 3.88				
0.5       T15P5NR-F       A       2.13         1.0       T15W1NR-F       A       2.13         2.0       T15W2NR-F       A       3.13         4.0       T15W4NR-F       C       3.13         6.0       T15W6NR-F       D       3.88	15.0	T10W15NR-F	D	5.25			
1.0     T15W1NR-F     A     2.13       2.0     T15W2NR-F     A     3.13       4.0     T15W4NR-F     C     3.13       6.0     T15W6NR-F     D     3.88		1500 Vdc	<u> </u>				
2.0       T15W2NR-F       A       3.13         4.0       T15W4NR-F       C       3.13         6.0       T15W6NR-F       D       3.88	0.5	T15P5NR-F	Α	2.13			
4.0 T15W4NR-F C 3.13 6.0 T15W6NR-F D 3.88	1.0	T15W1NR-F	Α	2.13			
6.0 T15W6NR-F D 3.88	2.0	T15W2NR-F	Α	3.13			
	4.0	T15W4NR-F	15W4NR-F C 3.13				
8.0 T15W8NR-F D 4.25	6.0	T15W6NR-F	D 3.88				
	8.0	4.25					

Сар	Catalog	Case H					
(μ <b>F</b> )	Part Number Code		(Inches)				
1500 Vdc							
10.0	T15W10NR-F	D	4.75				
12.0	T15W12NR-F	D	5.25				
15.0	T15W15NR-F	D	6.25				
	2000\	/dc					
0.10	T20P1NR-F	Α	2.13				
0.25	T20P25NR-F	Α	2.13				
0.50	T20P5NR-F	Α	2.13				
1.0	T20W1NR-F	Α	2.63				
2.0	T20W2NR-F	C	2.88				
4.0	T20W4NR-F	D	3.50				
5.0	T20W5NR-F	D	4.25				
8.0	T20W8NR-F	D	5.75				
10.0	T20W10NR-F	D	6.75				
15.0	T20W15NR-F	D	9.88				
	2500\	/dc					
1.0	T25W1NR-F	C	2.88				
2.0	T25W2NR-F C		3.13				
4.0	T25W4NR-F D		4.25				
3000 Vdc							
.10	T30P1NR-F	Α	2.13				
.50	T30P5NR-F	Α	3.13				
1.0	T30W1NR-F	C	3.13				
6.0	T30W6NR-F D		8.00				
5000 Vdc							
.50	T50P5NR-F	С	3.50				
1.0	T50W1NR-F D 4.25		4.25				
2.0	T50W2NR-F D 7.2						

## **Type T High Voltage Paper-Film/Foil Capacitors**

#### **Outline Drawing**



Case	Dimensions (Inches)					
Code	Α	В	С	D	F	
Α	1.31	2.16	0.56	1.06	0.81	
С	1.91	2.91	0.50	1.00	1.38	
D	1.97	3.66	0.50	1.00	1.38	

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