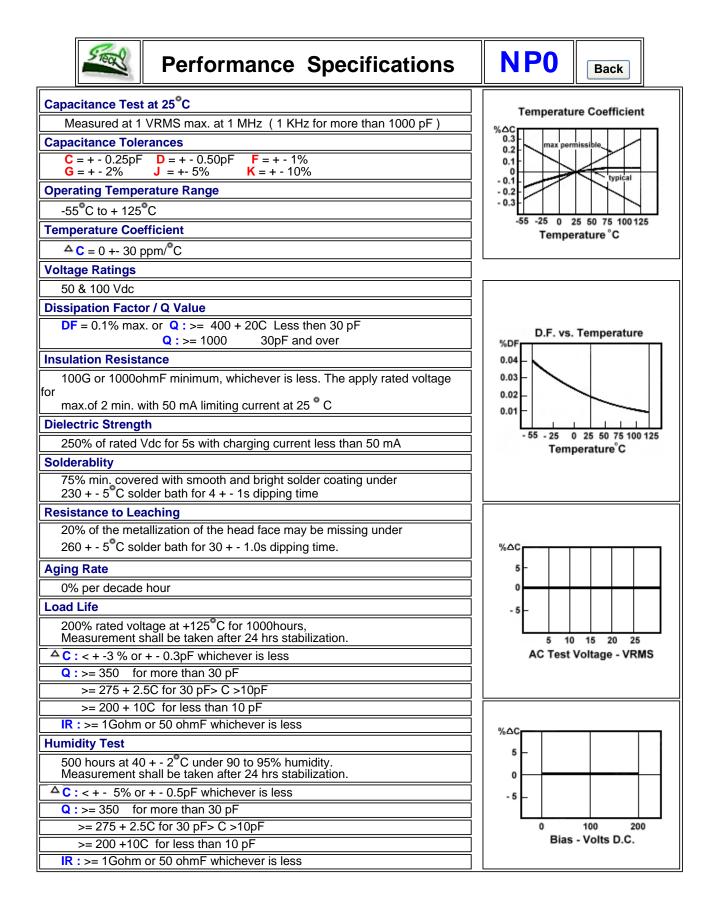
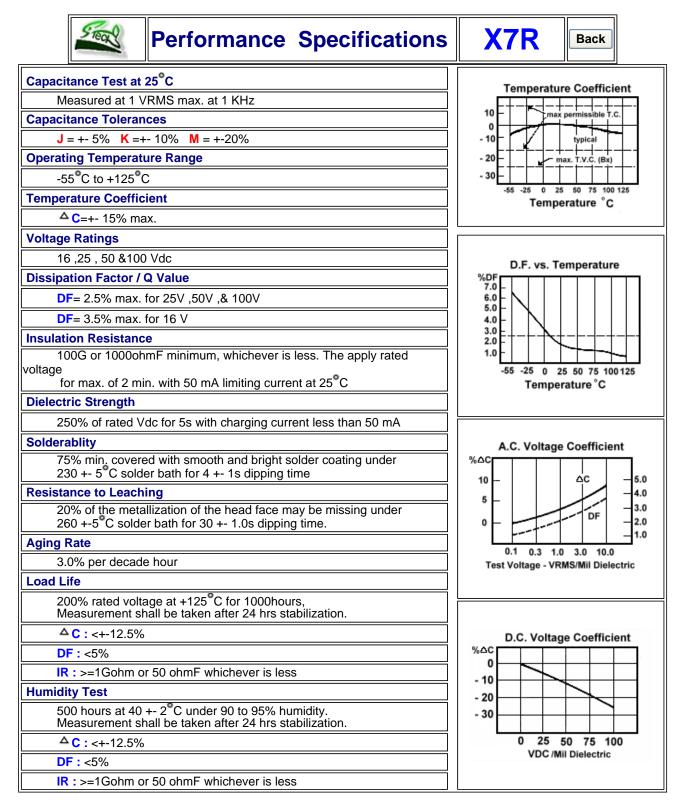
	STEOR	<u>m</u> u	vltilay	l ei Cei	amic Ca	pac	itor	/	BAC	K	
		Applications			Package						
<u>NP0</u> : Temperature compensation type, with little or no change in capacitance with variation in temperature. hence, they are used in radio-frequency oscillators, precision timing circuits, ultrastable amplifiers, etc.											
X7R : Temperature stable type for by-pass and decoupling in radio and television receivers, computer, servo systems, audio tone, and and coupling, etc where moderate capacitance variations are permissible and dissipation factor is not critical.											
<u>Z5U / Y5V</u> : General type for by-pass and filtering application.											
		. · Da	RA	DIAL	AXIAL						
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$											
	LEAD STYLE	Capacitance Range						Dimension (mm)			
SIZE		NPO	X7R	Z5U	Y5V	W Max.	H Max.	T Max.	d +- 0.05	F +- 0.8	
RD15	L	10 ~1500pF	220pF~0.1uF	0.01~0.22uF	0.01~0.33uF	4.0	4.0	2.2	0.5	2.54	
	Н					4.0	6.0	2.5	0.5	5.08	
RD20	Y	1800~5600pF	0.1~0.27uF	0.33~1.0uF	0.47~1.0uF	5.5	6.0	3.0	0.5	2.54	
	Н					5.5	6.0	3.0	0.5	5.08	
RD30				1.0~1.8uF	1.0~4.7uF	7.0	7.5	3.8	0.5	5.08	
	L					7.0	7.5	3.8	0.5	5.08	
A	X15	10~1000pF	220pF~0.1uF	0.01~0.22uF	0.01~0.22uF	W Max.	D Max	κ. Ι	L Min.	d +-0.05	
		_	-			5.0	3.0		20.0	0.5	







Performance Specifications Y5V Back



Capacitance Test at 25°C	Temperature Coefficient				
Measured at 1 VRMS max. at 1 KHz					
Capacitance Tolerances	° 🖆 📉 🕂 🕂 🕂				
M = +- 20 % Z = - 20% ~ +80%	- 20				
Operating Temperature Range	-40				
- 30°C to + 85°C	- 60				
Temperature Coefficient	0 10 20 30 40 50 60 70 80 Temperature °C				
$\Delta C = +22\% \sim -82\%$	-				
Voltage Ratings					
16, 25 & 50 Vdc	D.F. vs. Temperature				
Dissipation Factor / Q Value	%DF				
DF= 5.0% max. for 25 V & 50V.					
DF= 7.0% max. for 16 V .	5				
Insulation Resistance					
10G or 500ohm F minimum, whichever is less. The apply rated voltage for max. of 2 min. with 50 mA limiting current at 25 ° C	10 20 30 40 50 60 70 80 Temperature °C				
Dielectric Strength	i emperatario e				
250% of rated Vdc for 5s with charging current less than 50 mA					
Solderablity					
75% min. covered with smooth and bright solder coating under 230 +- 5°C solder bath for 4 +- 1s dipping time	%				
Resistance to Leaching	-10				
20% of the metallization of the head face may be missing under 260 +-5 °C solder bath for 30 +- 1.0s dipping time.	- 20				
Aging Rate	1 10 10 ² 10 ³ 10 ⁴				
7% per decade hour	Ageing - Hours				
Load Life					
200% rated voltage at +85°C for 1000hours, Measurement shall be taken after 24 hrs stabilization.					
△ C : <+- 30%	D.C. Voltage Coefficient				
DF : < 7.5% for 25 V					
IR : >=1Gohm or 50 ohmF whichever is less	- 20				
Humidity Test	- 40				
500 hours at 40 +- 2°C under 90 to 95% humidity. Measurement shall be taken after 24 hrs stabilization.	- 80				
△ C : <+- 30%	0 25 50 75 100 VDC /Mil Dielectric				
DF : < 7.5%					
IR : >=1Gohm or 50 ohmF whichever is less					