

LEADED

FEATURES

- SOLID ELECTROLYTE
- LOWEST ESR & HIGHEST RIPPLE CURRENT AT 100KHz
- CAPACITANCE VALUES UP TO 820 μ F
- 8x11.5mm ~ 10x12.5mm CASE SIZES, RADIAL LEADED
- Lead (Pb) AND PVC FREE CONSTRUCTION

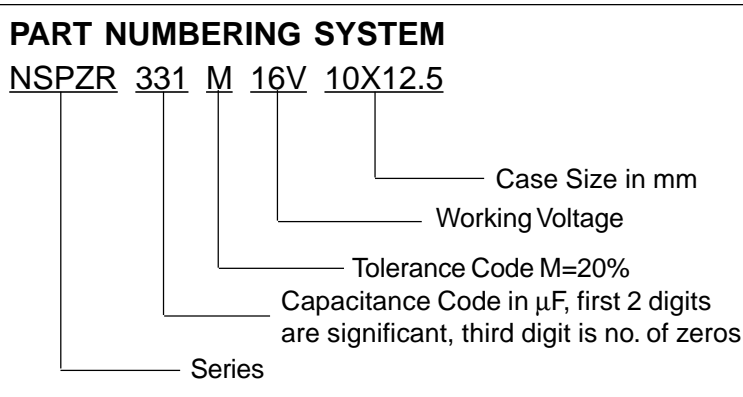
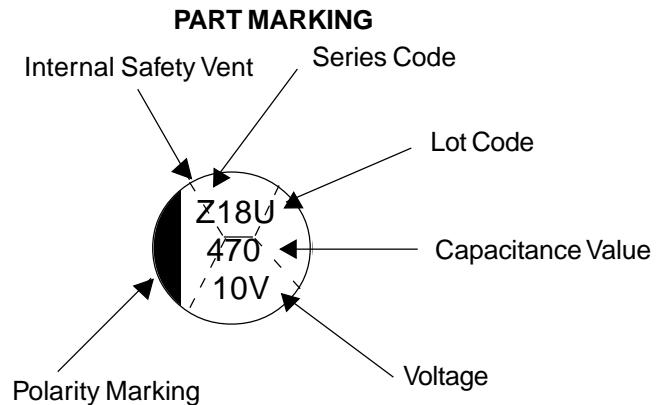


CHARACTERISTICS

Rated Voltage Range	4 ~ 20 Vdc	
Rated Capacitance Range	100 ~ 820 μ F	
Operating Temp. Range	-55 ~ +105°C	
Capacitance Tolerance	\pm 20%(M)	
Max. Leakage Current After 2 Minutes @ 20°C	Less than 0.2CV	
Working and Surge Voltage Ratings	W.V. (Vdc)	4.0 6.3 10 16 20
	S.V. (Vdc)	4.6 7.2 11.5 18.4 23.0
Low Temperature Stability Impedance Ratio @ 100KHz	Z -25°C/Z +20°C	\leq 1.15
	Z -55°C/Z +20°C	\leq 1.25
Tan δ @ 120Hz/20°C	All Case Sizes	0.12
Load LifeTest @ 105°C 2,000 Hours	Capacitance Change	Within \pm 20% of initial measured value
	Tan δ	Within 150% of specified max. value
	ESR	Within 150% of specified max. value
	Leakage Current	Less than specified max. value

STANDARD PRODUCTS AND CASE SIZES (mm)

Cap (μ F)	Code	Working Voltage (Vdc)					
		4.0	6.3	10	16	20	
100	101	-	-	-	-	8x11.5	
180	181	-	-	-	8x11.5	-	
220	221	-	-	8x11.5	-	-	
270	271	-	-	8x11.5	-	-	
330	331	-	-	-	10x12.5	-	
390	391	-	8x11.5	-	-	-	
470	471	-	-	10x12.5	-	-	
560	561	8x11.5	10x12.5	-	-	-	
680	681	-	10x12.5	-	-	-	
820	821	10x12.5	-	-	-	-	



STANDARD VALUES AND SPECIFICATIONS

Voltage (Vdc)	Cap. (μF)	Max. ESR (mΩ) 20°C/100K~300KHz	Ripple Current (mA) 105°C/100KHz
4	560	10	5,230
	820	8	5,500
6.3	390	12	4,770
	560	10	5,500
	680	10	5,500
10	220	14	4,420
	270	14	4,420
	470	12	5,300
16	180	16	4,360
	330	14	5,050
20	100	24	3,320

DIAMETER AND LEADSPACE (mm)

Case Dia. (DØ)	8	10
Lead Spacing (F)	3.5	5.0
Leads Dia. (dØ)	0.6	0.6
Dim. α	0.5	
Dim. β	1.5	

