

Polypropylene Film & Foil Capacitor

BNPS

Non-inductive construction using Polypropylene film & Foil with flame retardant plastic case and epoxy resin filled.

■ Features

- High pulse duty
- Very low dissipation factor
- Negative capacitance change versus temperature
- Plastic case(UL94 V-0), Epoxy resin sealing.
- RoHS directive compliant

■ Applications

- For high pulse and high frequency applications e.g.
- Switch mode power supplies
- Converter in drives and power electronics
- Deflection systems in monitors and TV-sets

■ Specifications

Reference Standard	IEC 60384-17
Climatic Category	40 / 105 / 21
Rated Temperature	105℃ +85℃~+105℃ decreasing factor 1.0% / °C for V_R (dc)
Operation Temperature Range	-40℃~105℃
Rated Voltage	630Vdc, 1000Vdc, 1250Vdc, 1600Vdc, 2000Vdc
Capacitance Range	0.00047μF~0.1 μF
Capacitance Tolerance	G : ±2% H : ±3% J : ±5% K : ±10% M : ±20% ※Standard : J : ±5%, Other Tolerance Grade : available on request.
Voltage Proof	$2U_R$ (dc) / 3sec
Dissipation Factor	≤0.1%(at 1kHz 20℃)
Rated Voltage	≥30,000MΩ C_R ≤0.33μF 500Vdc 60sec 20 °C
	≥10,000Ω·F C_R >0.33μF 500Vdc 60sec 20 °C

■ Part Number System

BNPS	630V	182	J	10	S	5	
Part-1	Part-2	Part-3	Part-4	Part-5	Part-6	Part-7	Part-8

Part-1 : Series Code(Series Name)-BNPS

Part-2 : Rated Voltage(DC : 630V~2000V)

Part-3 : Rated Capacitance Value(0.00047μF~0.1μF / 471~104)

Part-4 : Capacitance Tolerance(G : ± 2% H : ± 3% J : ± 5% K : ± 10% M : ± 20%)

Part-5 : Lead Spacing(10mm / 15mm / 22.5mm / 27.5mm)

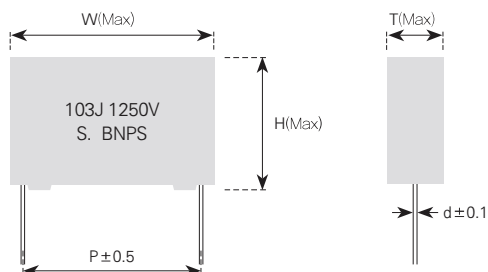
Part-6 : Forming-Type and Packing Code

Part-7 : Size Number(1 ~4 : Min-Type / 5 : Standard-Type / 6~9 : Large-Type)

Part-8 : Internal Use

CODE	STYLE
B	Bending Forming
C	Straight Cutting
D	D-Type Forming
L	B-Type long Forming
M	C-Type long Forming
S	Straight
X	B-Type Forming
Y	C-Type Forming
Z	Z-Type Forming
T	A-Type Tapping
U	B-Type Tapping
V	C-Type Tapping

■ Dimensions



630Vdc(400Vac)

Cap. (μF)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.0018	13.0	10.0	5.0	10.0-0.6	BNPS 630V 182J 10S 5 ____
0.0022	13.0	10.0	5.0	10.0-0.6	BNPS 630V 222J 10S 5 ____
0.0027	13.0	10.0	5.0	10.0-0.6	BNPS 630V 272J 10S 5 ____
0.0033	13.0	10.0	5.0	10.0-0.6	BNPS 630V 332J 10S 5 ____
0.0039	13.0	10.0	5.0	10.0-0.6	BNPS 630V 392J 10S 5 ____
0.0047	13.0	10.0	5.0	10.0-0.6	BNPS 630V 472J 10S 5 ____
0.0056	13.0	11.0	5.0	10.0-0.6	BNPS 630V 562J 10S 5 ____
0.0068	13.0	12.0	6.0	10.0-0.6	BNPS 630V 682J 10S 5 ____
0.015	18.0	11.0	5.0	15.0-0.8	BNPS 630V 153J 15S 5 ____
0.01	18.0	12.0	6.0	15.0-0.8	BNPS 630V 183J 15S 5 ____
0.022	18.0	12.0	6.0	15.0-0.8	BNPS 630V 223J 15S 5 ____
0.027	18.0	13.0	7.0	15.0-0.8	BNPS 630V 273J 15S 5 ____
0.033	18.0	13.5	7.5	15.0-0.8	BNPS 630V 333J 15S 5 ____
0.022	18.0	12.0	6.0	15.0-0.8	BNPS 630V 223J 15S 5 ____
0.027	18.0	13.0	7.0	15.0-0.8	BNPS 630V 273J 15S 5 ____
0.033	18.0	13.5	7.5	15.0-0.8	BNPS 630V 333J 15S 5 ____
0.022	32.0	18.0	9.0	27.5-0.8	BNPS 630V 223J 27.5S 5 ____
0.027	32.0	18.0	9.0	27.5-0.8	BNPS 630V 273J 27.5S 5 ____
0.033	32.0	18.0	9.0	27.5-0.8	BNPS 630V 333J 27.5S 5 ____
0.039	32.0	18.0	9.0	27.5-0.8	BNPS 630V 393J 27.5S 5 ____
0.047	32.0	18.0	9.0	27.5-0.8	BNPS 630V 473J 27.5S 5 ____
0.056	32.0	18.0	9.0	27.5-0.8	BNPS 630V 563J 27.5S 5 ____
0.068	32.0	18.0	9.0	27.5-0.8	BNPS 630V 683J 27.5S 5 ____
0.082	32.0	18.0	9.0	27.5-0.8	BNPS 630V 823J 27.5S 5 ____
0.1	32.0	18.0	9.0	27.5-0.8	BNPS 630V 104J 27.5S 5 ____

1000Vdc(600Vac)

Cap. (μF)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.001	13.0	10.0	5.0	10.0-0.6	BNPS 1000V 102J 10S 5 ____
0.0012	13.0	10.0	5.0	10.0-0.6	BNPS 1000V 122J 10S 5 ____
0.0015	13.0	10.0	5.0	10.0-0.6	BNPS 1000V 152J 10S 5 ____
0.0018	13.0	10.0	5.0	10.0-0.6	BNPS 1000V 182J 10S 5 ____
0.0022	13.0	10.0	5.0	10.0-0.6	BNPS 1000V 222J 10S 5 ____
0.0027	13.0	10.0	5.0	10.0-0.6	BNPS 1000V 272J 10S 5 ____
0.0033	13.0	12.0	6.0	10.0-0.6	BNPS 1000V 332J 10S 5 ____
0.0039	13.0	12.0	6.0	10.0-0.6	BNPS 1000V 392J 10S 5 ____
0.0047	13.0	12.0	6.0	10.0-0.6	BNPS 1000V 472J 10S 5 ____
0.0047	18.0	11.0	5.0	15.0-0.8	BNPS 1000V 472J 15S 5 ____
0.0056	18.0	11.0	5.0	15.0-0.8	BNPS 1000V 562J 15S 5 ____
0.0068	18.0	11.0	5.0	15.0-0.8	BNPS 1000V 682J 15S 5 ____
0.0082	18.0	11.0	5.0	15.0-0.8	BNPS 1000V 822J 15S 5 ____
0.01	18.0	12.0	6.0	15.0-0.8	BNPS 1000V 103J 15S 5 ____
0.0120	18.0	12.0	6.0	15.0-0.8	BNPS 1000V 123J 15S 5 ____
0.0150	18.0	13.0	7.0	15.0-0.8	BNPS 1000V 153J 15S 5 ____
0.0180	18.0	14.5	8.5	15.0-0.8	BNPS 1000V 183J 15S 5 ____
0.0220	18.0	14.5	8.5	15.0-0.8	BNPS 1000V 223J 15S 5 ____
0.0120	26.0	15.0	6.0	22.5-0.8	BNPS 1000V 123J 22.5S 5 ____
0.0150	26.0	15.0	6.0	22.5-0.8	BNPS 1000V 153J 22.5S 5 ____
0.0180	26.0	15.0	6.0	22.5-0.8	BNPS 1000V 183J 22.5S 5 ____
0.0220	26.0	15.0	6.0	22.5-0.8	BNPS 1000V 223J 22.5S 5 ____
0.0270	26.0	16.5	7.0	22.5-0.8	BNPS 1000V 273J 22.5S 5 ____
0.0330	26.0	16.5	7.0	22.5-0.8	BNPS 1000V 333J 22.5S 5 ____
0.0390	26.0	17.0	8.5	22.5-0.8	BNPS 1000V 393J 22.5S 5 ____
0.0470	26.0	17.0	8.5	22.5-0.8	BNPS 1000V 473J 22.5S 5 ____
0.015	32.0	18.0	9.0	27.5-0.8	BNPS 1000V 153J 27.5S 5 ____
0.018	32.0	18.0	9.0	27.5-0.8	BNPS 1000V 183J 27.5S 5 ____
0.022	32.0	18.0	9.0	27.5-0.8	BNPS 1000V 223J 27.5S 5 ____
0.027	32.0	18.0	9.0	27.5-0.8	BNPS 1000V 273J 27.5S 5 ____
0.033	32.0	18.0	9.0	27.5-0.8	BNPS 1000V 333J 27.5S 5 ____
0.039	32.0	18.0	9.0	27.5-0.8	BNPS 1000V 393J 27.5S 5 ____
0.047	32.0	18.0	9.0	27.5-0.8	BNPS 1000V 473J 27.5S 5 ____

Polypropylene Film & Foil Capacitor

1250Vdc(600Vac)

Cap. (μF)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.0018	18.0	11.0	5.0	15.0-0.8	BNPS 1250V 182J 15S 5 _____
0.0022	18.0	12.0	6.0	15.0-0.8	BNPS 1250V 222J 15S 5 _____
0.0027	18.0	11.0	5.0	15.0-0.8	BNPS 1250V 272J 15S 5 _____
0.0033	18.0	12.0	6.0	15.0-0.8	BNPS 1250V 332J 15S 5 _____
0.0039	18.0	12.0	6.0	15.0-0.8	BNPS 1250V 392J 15S 5 _____
0.0047	18.0	12.0	6.0	15.0-0.8	BNPS 1250V 472J 15S 5 _____
0.0056	18.0	11.0	5.0	15.0-0.8	BNPS 1250V 562J 15S 5 _____
0.0068	18.0	12.0	6.0	15.0-0.8	BNPS 1250V 682J 15S 5 _____
0.0082	18.0	12.0	6.0	15.0-0.8	BNPS 1250V 822J 15S 5 _____
0.01	18.0	13.0	7.0	15.0-0.8	BNPS 1250V 103J 15S 5 _____
0.012	18.0	13.5	7.5	15.0-0.8	BNPS 1250V 123J 15S 5 _____
0.015	18.0	14.5	8.5	15.0-0.8	BNPS 1250V 153J 15S 5 _____
0.018	18.0	17.5	8.5	15.0-0.8	BNPS 1250V 183J 15S 5 _____
0.0056	26.0	15.0	6.0	22.5-0.8	BNPS 1250V 562J 22.5S 5 _____
0.0068	26.0	16.5	7.0	22.5-0.8	BNPS 1250V 682J 22.5S 5 _____
0.0082	26.0	15.0	6.0	22.5-0.8	BNPS 1250V 822J 22.5S 5 _____
0.010	26.0	15.0	6.0	22.5-0.8	BNPS 1250V 103J 22.5S 5 _____
0.012	26.0	15.0	6.0	22.5-0.8	BNPS 1250V 123J 22.5S 5 _____
0.015	26.0	15.0	6.0	22.5-0.8	BNPS 1250V 153J 22.5S 5 _____
0.018	26.0	15.0	6.0	22.5-0.8	BNPS 1250V 183J 22.5S 5 _____
0.022	26.0	16.5	7.0	22.5-0.8	BNPS 1250V 223J 22.5S 5 _____
0.027	26.0	17.0	8.5	22.5-0.8	BNPS 1250V 273J 22.5S 5 _____
0.033	26.0	17.0	8.5	22.5-0.8	BNPS 1250V 333J 22.5S 5 _____
0.0082	32.0	18.0	9.0	27.5-0.8	BNPS 1250V 822J 27.5S 5 _____
0.01	32.0	18.0	9.0	27.5-0.8	BNPS 1250V 103J 27.5S 5 _____
0.012	32.0	18.0	9.0	27.5-0.8	BNPS 1250V 123J 27.5S 5 _____
0.015	32.0	18.0	9.0	27.5-0.8	BNPS 1250V 153J 27.5S 5 _____
0.018	32.0	18.0	9.0	27.5-0.8	BNPS 1250V 183J 27.5S 5 _____
0.022	32.0	18.0	9.0	27.5-0.8	BNPS 1250V 223J 27.5S 5 _____
0.027	32.0	18.0	9.0	27.5-0.8	BNPS 1250V 273J 27.5S 5 _____
0.033	32.0	18.0	9.0	27.5-0.8	BNPS 1250V 333J 27.5S 5 _____

1600Vdc(650Vac)

Cap. (μF)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.001	18.0	12.0	6.0	15.0-0.8	BNPS 1600V 102J 15S 5 _____
0.0012	18.0	12.0	6.0	15.0-0.8	BNPS 1600V 122J 15S 5 _____
0.0015	18.0	12.0	6.0	15.0-0.8	BNPS 1600V 152J 22.5S 5 _____
0.0018	18.0	12.0	6.0	15.0-0.8	BNPS 1600V 182J 22.5S 5 _____
0.0022	18.0	12.0	6.0	15.0-0.8	BNPS 1600V 222J 22.5S 5 _____
0.0027	18.0	12.0	6.0	15.0-0.8	BNPS 1600V 272J 15S 5 _____
0.0033	18.0	12.0	6.0	15.0-0.8	BNPS 1600V 332J 15S 5 _____
0.0039	18.0	13.0	7.0	15.0-0.8	BNPS 1600V 392J 15S 5 _____
0.0047	18.0	13.5	7.5	15.0-0.8	BNPS 1600V 472J 22.5S 5 _____
0.0033	26.0	15.0	6.0	22.5-0.8	BNPS 1600V 332J 22.5S 5 _____
0.0039	26.0	15.0	6.0	22.5-0.8	BNPS 1600V 392J 22.5S 5 _____
0.0047	26.0	15.0	6.0	22.5-0.8	BNPS 1600V 472J 22.5S 5 _____
0.0056	26.0	15.0	6.0	22.5-0.8	BNPS 1600V 562J 22.5S 5 _____
0.0068	26.0	15.0	6.0	22.5-0.8	BNPS 1600V 682J 22.5S 5 _____
0.0082	26.0	15.0	6.0	22.5-0.8	BNPS 1600V 822J 22.5S 5 _____
0.01	26.0	16.5	7.0	22.5-0.8	BNPS 1600V 103J 22.5S 5 _____
0.012	26.0	16.5	7.0	22.5-0.8	BNPS 1600V 123J 22.5S 5 _____
0.015	26.0	17.0	8.5	22.5-0.8	BNPS 1600V 153J 22.5S 5 _____
0.018	26.0	17.0	8.5	22.5-0.8	BNPS 1600V 183J 22.5S 5 _____
0.01	32.0	18.0	9.0	27.5-0.8	BNPS 1600V 103J 27.5S 5 _____
0.012	32.0	18.0	9.0	27.5-0.8	BNPS 1600V 123J 27.5S 5 _____
0.015	32.0	18.0	9.0	27.5-0.8	BNPS 1600V 153J 27.5S 5 _____
0.018	32.0	18.0	9.0	27.5-0.8	BNPS 1600V 183J 27.5S 5 _____
0.022	32.0	18.0	9.0	27.5-0.8	BNPS 1600V 223J 27.5S 5 _____

2000Vdc(700Vac)					
Cap. (μ F)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.00047	18.0	12.0	6.0	15.0-0.8	BNPS 2000V 471J 15S 5 _____
0.00056	18.0	12.0	6.0	15.0-0.8	BNPS 2000V 561J 15S 5 _____
0.00068	18.0	12.0	6.0	15.0-0.8	BNPS 2000V 681J 15S 5 _____
0.00082	18.0	13.0	7.0	15.0-0.8	BNPS 2000V 821J 15S 5 _____
0.001	18.0	12.0	6.0	15.0-0.8	BNPS 2000V 102J 15S 5 _____
0.0012	18.0	12.0	6.0	15.0-0.8	BNPS 2000V 122J 15S 5 _____
0.0015	18.0	12.0	6.0	15.0-0.8	BNPS 2000V 152J 15S 5 _____
0.0018	18.0	12.0	6.0	15.0-0.8	BNPS 2000V 182J 15S 5 _____
0.0022	18.0	13.0	7.0	15.0-0.8	BNPS 2000V 222J 15S 5 _____
0.0027	18.0	13.5	7.5	15.0-0.8	BNPS 2000V 272J 15S 5 _____
0.0033	18.0	14.5	8.5	15.0-0.8	BNPS 2000V 332J 15S 5 _____
0.0018	26.0	16.5	7.0	22.5-0.8	BNPS 2000V 182J 22.5S 5 _____
0.0022	26.0	16.5	7.0	22.5-0.8	BNPS 2000V 222J 22.5S 5 _____
0.0027	26.0	17.0	8.5	22.5-0.8	BNPS 2000V 272J 22.5S 5 _____
0.0033	26.0	16.5	7.0	22.5-0.8	BNPS 2000V 332J 22.5S 5 _____
0.0039	26.0	16.5	7.0	22.5-0.8	BNPS 2000V 392J 22.5S 5 _____
0.0047	26.0	16.5	7.0	22.5-0.8	BNPS 2000V 472J 22.5S 5 _____
0.0056	26.0	16.5	7.0	22.5-0.8	BNPS 2000V 562J 22.5S 5 _____
0.0068	26.0	16.5	7.0	22.5-0.8	BNPS 2000V 682J 22.5S 5 _____
0.0082	26.0	17.0	8.5	22.5-0.8	BNPS 2000V 822J 22.5S 5 _____
0.01	26.0	17.0	8.5	22.5-0.8	BNPS 2000V 103J 22.5S 5 _____
0.0018	32.0	18.0	9.0	27.5-0.8	BNPS 2000V 182J 27.5S 5 _____
0.0022	32.0	18.0	9.0	27.5-0.8	BNPS 2000V 222J 27.5S 5 _____
0.0027	32.0	18.0	9.0	27.5-0.8	BNPS 2000V 272J 27.5S 5 _____
0.0033	32.0	18.0	9.0	27.5-0.8	BNPS 2000V 332J 27.5S 5 _____
0.0039	32.0	18.0	9.0	27.5-0.8	BNPS 2000V 392J 27.5S 5 _____
0.0047	32.0	18.0	9.0	27.5-0.8	BNPS 2000V 472J 27.5S 5 _____
0.0056	32.0	18.0	9.0	27.5-0.8	BNPS 2000V 562J 27.5S 5 _____
0.0068	32.0	18.0	9.0	27.5-0.8	BNPS 2000V 682J 27.5S 5 _____
0.0082	32.0	18.0	9.0	27.5-0.8	BNPS 2000V 822J 27.5S 5 _____
0.01	32.0	18.0	9.0	27.5-0.8	BNPS 2000V 103J 27.5S 5 _____
0.012	32.0	18.0	9.0	27.5-0.8	BNPS 2000V 123J 27.5S 5 _____

