



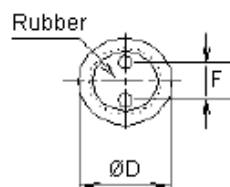
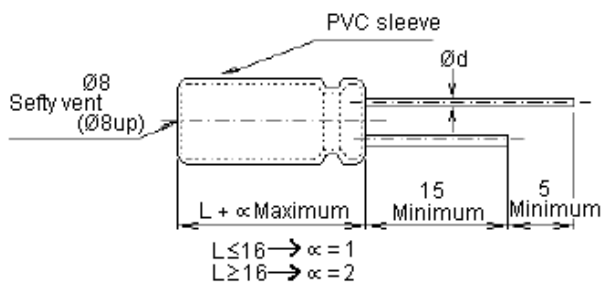
Features:

- NP series capacitors are suitable for crossover network for HI-FI equipments and speakers, etc
- Have excellent frequency characteristic and small deviation of capacitance

Specifications:

Item	Performance	
Operating Temperature Range	-40°C to +105°C	
Rated Working Voltage Range	10V DC to 250V DC	
Nominal Capacitance Range	0.47 to 2,200µF	
Capacitance Tolerance	±20% (at+20°C ,120Hz)	
Leakage Current	≤0.03CV or 3(µA) after five minutes	
Dissipation Factor (tanδ) (120Hz \ +20°C)	Working voltage (V) 16 35 63 100	
	tan δ maximum 0.2 0.15 0.1 0.12	
(at 120 Hz) Characteristics at low temperature (stability at 120 Hz)	Working voltage (V) 16 35 63 100	
	-25°C / +20°C 2 2 2 2	
	-40°C / +20°C 4 3 3 3	
High Temperature Loading	After 2000hrs. application of DC rated working voltage at +85°C, The capacitor shall meet the following limits: Post test requirements at +20°C.	
	Leakage current	≤ the Initial specified value
	Capacitance change	≤ ±20% of initial measured value
	Dissipation Factor (tanδ)	≤ 150% of initial specified value
Shelf Life	After storage for 500hrs. at +105°C with no voltage applied. Post test requirements at +20°C Same limits as high temperature loading.	

Diagram of Dimensions



DØ (+ 0.5 Maximum)	5	6.3	8	10	13	16
F (± 0.5)	2	2.5	3.5	5	5	7.5
dØ (± 0.02)	0.5	0.5	0.6	0.6	0.6	0.8

Dimensions : Millimetres

Case Size Table

Ø D × L (mm)

W.V. (SV) µF	16 (20)	35 (44)	63 (79)	100 (125)
0.47	5 × 11	5 × 11	5 × 11	5 × 11
1				6.3 × 11
2.2				
3.3				
4.7				
10			6.3 × 11	8 × 11.5
22			6.3 × 11	8 × 11.5
33	6.3 × 11	8 × 11.5	10 × 12.5	13 × 21
47			10 × 16	
100	8 × 11.5	10 × 16	13 × 21	16 × 26
220	10 × 12.5	13 × 21	16 × 26	-
330	10 × 16		-	-
470	10 × 20	13 × 26	-	-
1,000	13 × 26	-	-	-
2,200	-	-	-	-

Permissible Ripple Current

Maximum ripple current: mA (rms) (at 85°C 120 Hz)

WW (SV) µF	16 (20)	35 (44)	63 (79)	100 (125)
0.47	10	10	13	15
1	15	15	19	19
2.2	20	20	25	25
3.3	30	30	30	35
4.7			35	40
10	40	40	55	70
22	55	70	90	135
33	70	100	135	220
47	95	120	180	240
100	160	230	320	425
220	275	410	575	-
330	375	505	-	-
470	485	655	-	-
1,000	855	-	-	-
2,200	-	-	-	-

Part Number Table

Description	Part Number
Capacitor, N/P, 1µF, 16V	MCNP16V105M5X11
Capacitor, N/P, 4.7µF, 16V	MCNP16V475M5X11
Capacitor, N/P, 10µF, 16V	MCNP16V106M5X11
Capacitor, N/P, 22µF, 16V	MCNP16V226M5X11
Capacitor, N/P, 47µF, 16V	MCNP16V476M6.3X11
Capacitor, N/P, 100µF, 16V	MCNP16V107M8X11.5
Capacitor, N/P, 220µF, 16V	MCNP16V227M10X12.5
Capacitor, N/P, 470µF, 16V	MCNP16V477M10X20
Capacitor, N/P, 1,000µF, 16V	MCNP16V108M13X25
Capacitor, N/P, 1µF, 35V	MCNP35V105M5X11
Capacitor, N/P, 2.2µF, 35V	MCNP35V225M5X11
Capacitor, N/P, 4.7 UF, 35V	MCNP35V475M5X11
Capacitor, N/P, 10µF, 35V	MCNP35V106M5X11
Capacitor, N/P, 22µF, 35V	MCNP35V226M6.3X11
Capacitor, N/P, 47µF, 35V	MCNP35V476M8X11.5
Capacitor, N/P, 100µF, 35V	MCNP35V107M10X16
Capacitor, N/P, 220µF, 35V	MCNP35V227M13X20
Capacitor, N/P, 470 UF, 35V	MCNP35V477M13X25
Capacitor, N/P, 0.47µF, 63V	MCNP63V474M5X11
Capacitor, N/P, 1µF, 63V	MCNP63V105M5X11
Capacitor, N/P, 2.2µF, 63V	MCNP63V225M5X11
Capacitor, N/P, 4.7µF, 63V	MCNP63V475M6.3X11
Capacitor, N/P, 10µF, 63V	MCNP63V106M6.3X11
Capacitor, N/P, 22µF, 63V	MCNP63V226M8X11.5
Capacitor, N/P, 47µF, 63V	MCNP63V476M10X16
Capacitor, N/P, 100 UF, 63V	MCNP63V107M13X20
Capacitor, N/P, 220 UF, 63V	MCNP63V227M16X25
Capacitor, N/P, 1µF, 100V	MCNP100V105M5X11
Capacitor, N/P, 2.2µF, 100V	MCNP100V225M6.3X11
Capacitor, N/P, 3.3µF, 100V	MCNP100V335M6.3X11
Capacitor, N/P, 4.7µF, 100V	MCNP100V475M6.3X11
Capacitor, N/P, 33µF, 100V	MCNP100V336M13X20
Capacitor, N/P, 47µF, 100V	MCNP100V476M13X20
Capacitor, N/P, 100µF, 100V	MCNP100V107M16X25

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.