

●メタライズド・ポリプロピレン・フィルム・コンデンサ

MMPNBシリーズ

■特徴

- ・UPS・インバータ・電気溶接機・電源・IGBT等の高周波リプルの吸収用（スナバ）に最適です。
- ・周波数特性、温度特性に優れています。
- ・プラスチックケース、封止樹脂は難燃性です。（プラスチックケース：UL 94V-0）
- ・損失は小さく、内部温度の上昇は少ないです。

●METALLIZED POLYPROPYLENE FILM CAPACITORS

TYPE MMPNB

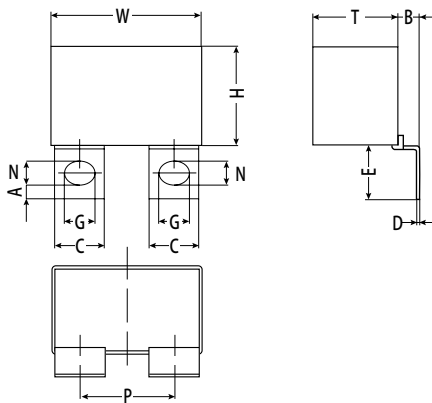
■FEATURES

- ・ Widely applied in UPS/Inverter/Electric welder/Power supply and IGBT modules which absorb high frequency ripple (Snubber).
- ・ Superior frequency characteristic and temperature characteristic.
- ・ Plastic case, epoxy resin sealing, excellent active and passive flame resistant abilities. (Plastic case : UL 94V-0)
- ・ Low loss, small inherent temperature rise.

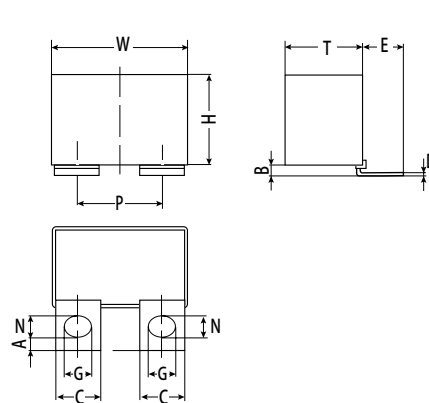
■性能/PERFORMANCE SPECIFICATIONS

・ 定格電圧/Nominal voltage : 1000V, 1200V, 1600V, 2000VDC
・ 静電容量範囲/Capacitance range : 0.47~2.5 $\mu$ F
・ 静電容量許容差/Capacitance tolerance : $\pm 5\%$ (J), $\pm 10\%$ (K)
・ 誘電正接( $\tan \delta$ )/Dissipation factor ( $\tan \delta$ ) : 0.1% Max. (at 20 $^{\circ}$ C, 1kHz)
・ 絶縁抵抗/Insulation resistance : $\geq 7,500\Omega F$ (20 $^{\circ}$ C, 1min.)
・ 耐電圧/Withstand voltage : 1.75 $\times$ WV (1~5sec)
・ 高温耐久性/Endurance : 85 $^{\circ}$ C, 1.25 $\times$ WV. 1000hr $\Delta C/C \leq \pm 5\%$ , $\tan \delta \leq 0.15\%$ (at 20 $^{\circ}$ C, 1kHz) $IR \geq 3,750\Omega F$ (20 $^{\circ}$ C, 1min.)
・ 耐湿耐久性/Damp heat : 40 $^{\circ}$ C, 90~90RH, WV. 1000hr $\Delta C/C \leq \pm 7\%$ , $\tan \delta \leq 0.1\%$ (at 20 $^{\circ}$ C, 1kHz) $IR \geq 3,750\Omega F$ (20 $^{\circ}$ C, 1min.)

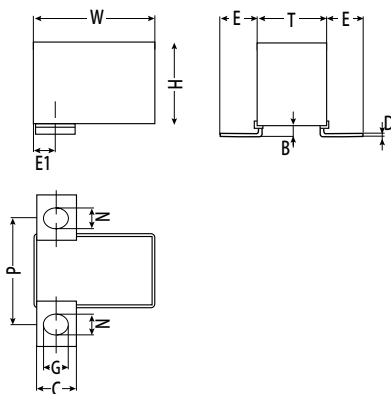
■寸法図/DIAGRAM OF DIMENSIONS



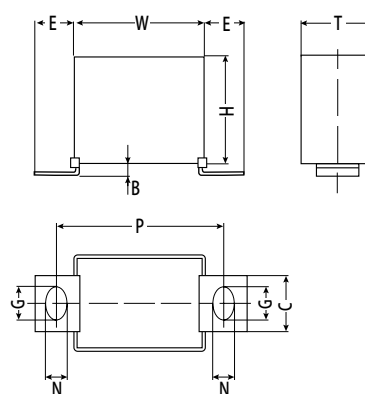
type H (Horizontal installation)



type V (Vertical installation)



type D (Front and rear installation)



type N (Left and light sides installation)

**■製品 サイズ・電気特性一覧表／PRODUCT SIZE AND ELECTRICAL CHARACTERISTICS TABLE**
**● 1000VDC**

(mm)

Symbol	$\mu F$	W $\pm 0.5$	H $\pm 0.5$	T $\pm 0.5$	P $\pm 1.0$	A	B	C	D $\pm 0.1$	E	G	N	Parts code
474	0.47	42.5	27.5	24.5	26.0	4.0	6.0	14.0	0.8	14.0	8.5	6.5	102MMPNB#474*E
684	0.68		↓	↓					1.0				102MMPNB#684*E
824	0.82		33.5	35.5									102MMPNB#824*E
105	1		↓	↓									102MMPNB#105*E
155	1.5		30.0	45.0									102MMPNB#155*E
205	2		33.0	↓									102MMPNB#205*E
255	2.5	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	102MMPNB#255*E

**● 1200VDC**

Symbol	$\mu F$	W $\pm 0.5$	H $\pm 0.5$	T $\pm 0.5$	P $\pm 1.0$	A	B	C	D $\pm 0.1$	E	G	N	Parts code
474	0.47	42.5	27.5	24.5	26.0	4.0	6.0	14.0	0.8	14.0	8.5	6.5	122MMPNB#474*E
684	0.68		33.5	↓					1.0				122MMPNB#684*E
824	0.82		↓	35.5									122MMPNB#824*E
105	1		35.5	↓									122MMPNB#105*E
155	1.5		33.0	45.0									122MMPNB#155*E
205	2	57.5	↓	↓									122MMPNB#205*E
255	2.5	↓	35.0	50.0	↓	↓	↓	↓	↓	↓	↓	↓	122MMPNB#255*E

**● 1600VDC**

Symbol	$\mu F$	W $\pm 0.5$	H $\pm 0.5$	T $\pm 0.5$	P $\pm 1.0$	A	B	C	D $\pm 0.1$	E	G	N	Parts code
474	0.47	42.5	27.5	24.5	26.0	4.0	3.5	14.0	1.0	12.8	8.5	6.5	162MMPNB#474*E
684	0.68		33.5	35.5									162MMPNB#684*E
824	0.82		33.0	45.0									162MMPNB#824*E
105	1	57.5	↓	↓									162MMPNB#105*E
155	1.5		30.0	↓									162MMPNB#155*E
205	2		35.0	50.0									162MMPNB#205*E
255	2.5	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	162MMPNB#255*E

**● 2000VDC**

Symbol	$\mu F$	W $\pm 0.5$	H $\pm 0.5$	T $\pm 0.5$	P $\pm 1.0$	A	B	C	D $\pm 0.1$	E	G	N	Parts code
474	0.47	42.5	33.5	35.5	26.0	4.0	3.5	14.0	1.0	12.8	8.5	6.5	202MMPNB#474*E
684	0.68		33.0	45.0									202MMPNB#684*E
824	0.82		↓	↓									202MMPNB#824*E
105	1	57.5	30.0	↓									202MMPNB#105*E
155	1.5		35.0	50.0									202MMPNB#155*E
205	2		38.0	54.0	↓	↓	↓	↓	↓	↓	↓	↓	202MMPNB#205*E

# : type H or V or D or N \* : Tolerance J or K