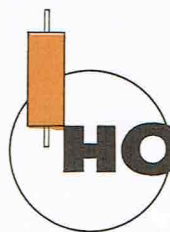


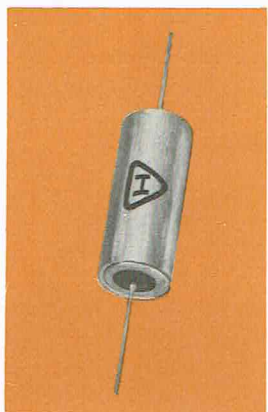
DATA·LOG



HOPKINS *Engineering* COMPANY

JULY 1957

NO. C-102



MYLAR* AND FOIL

INTRODUCTION — HOPKINS ENGINEERING COMPANY'S mylar capacitors have enjoyed excellent reception in both military and commercial applications. These units are available in hermetically sealed tubes or bathtubs and in film wrapped units which are endfilled with a high grade plastic dielectric.

CONSTRUCTION — Our mylar capacitors are constructed with the highest quality material available and produced under rigid quality control processes. These units are of tab or extended foil construction.

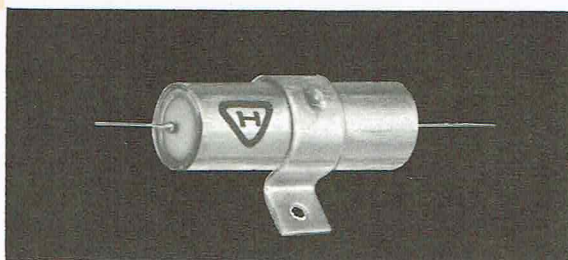
TEMPERATURE — Mylar and foil capacitors will operate from -55°C to $+100^{\circ}\text{C}$ with derating and may be operated up to 125°C with a 50% voltage derating. Special hermetically sealed units containing high quality synthetic oil impregnates will successfully operate as high as 165°C .

POWER FACTOR — The power factor shall not exceed .5% when measured at 1,000 cycles at 25°C .

INSULATION RESISTANCE — The insulation resistance will exceed 50,000 megohms mfd at 25°C , 5,000 megohms mfd at 85°C , 100 megohms mfd at 125°C , 10 megohms mfd at 165°C .

CAPACITANCE TOLERANCE — Standard tolerance is $\pm 20\%$. Closer tolerances down to $\pm 1\%$ are available upon request. This tolerance is measured at or referred to at 1,000 cycles and 25°C .

CAPACITANCE STABILITY — Mylar and foil capacitors have a temperature change of -6% from $+25^{\circ}\text{C}$ to -55°C , a $+6\%$ from $+25^{\circ}\text{C}$ to $+85^{\circ}\text{C}$, a $+15\%$ from $+25^{\circ}\text{C}$ to $+125^{\circ}\text{C}$.



DIELECTRIC STRENGTH — These units will withstand an application of voltage between terminals for a period not to exceed 2 minutes at 175% of the rated voltage at 25°C .

LIFE TEST — These units will withstand 140% of the rated voltage for 250 hours at 125°C . Surge circuit should be limited to 5 milliamperes. Mylar and foil units when hermetically sealed will meet or exceed the environmental specifications of MIL-C-25A.

TERMINALS AND MOUNTING — Mylar and foil units are available in all the various case styles and bathtubs. The standard hermetically sealed tubular and wrapped units shall have copper clad wire leads of axial construction with a dimension of $1\frac{5}{8}$ inches long, $-0+1$ inch.

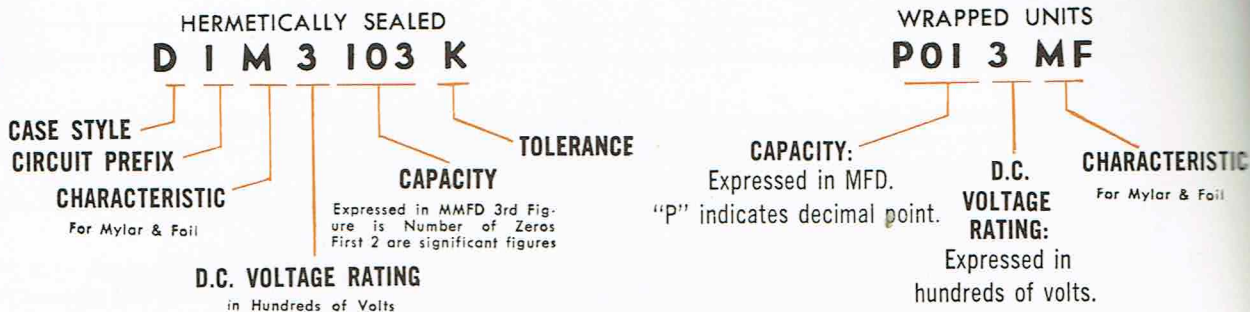


MYLAR* AND FOIL

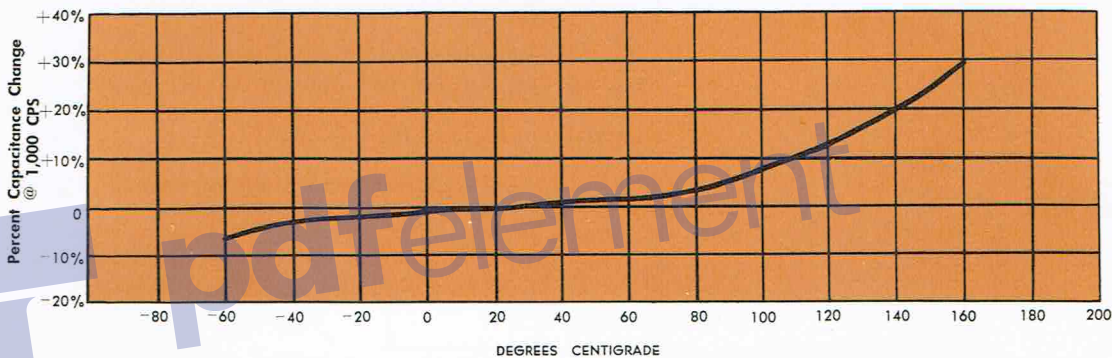
Remove Watermark Now

Catalog Numbering System

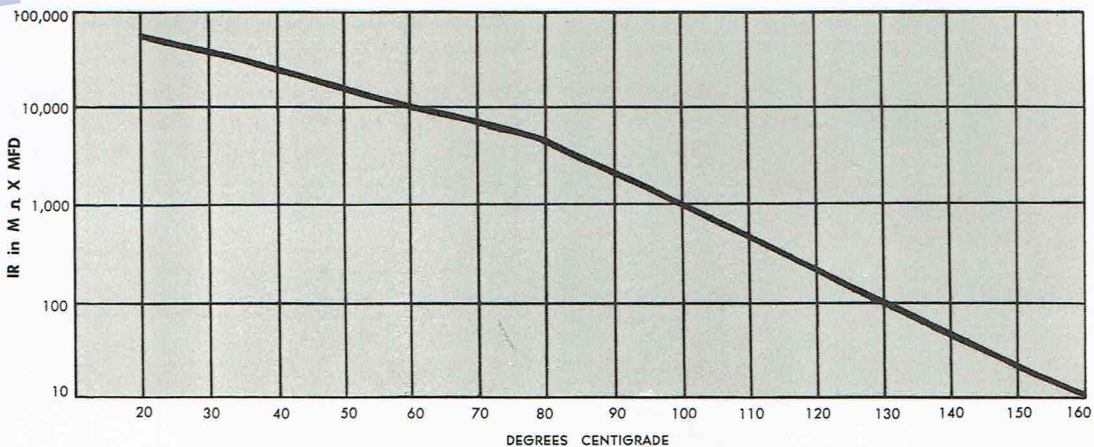
EXAMPLE: →



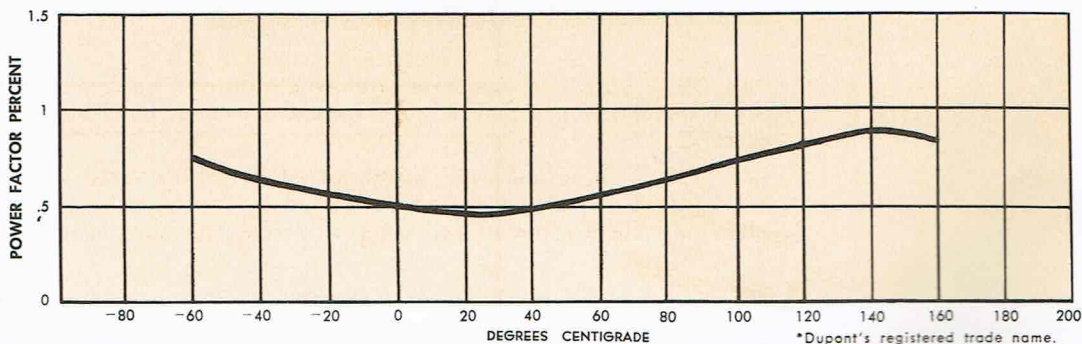
CAPACITANCE VS TEMPERATURE



INSULATION RESISTANCE VS TEMPERATURE



POWER FACTOR VS TEMPERATURE



*Dupont's registered trade name.

FILM CAPACITORS

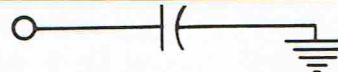
CASE STYLES

CIRCUIT DESIGNATIONS

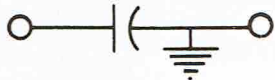
1. FLOATING CASE (Standard)



2. GROUNDED CASE (No ground lead)



3. GROUNDED CASE (With ground lead)



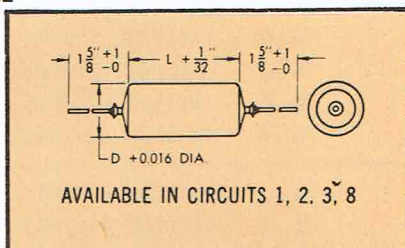
8. FEED THRU



STANDARD CASE STYLE



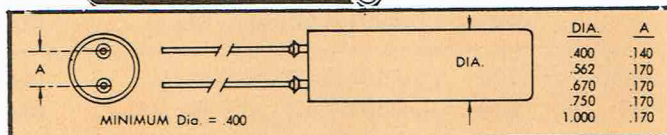
Case floating



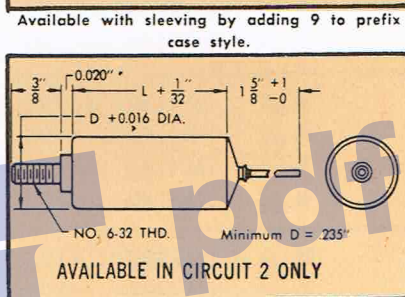
CASE STYLE B



AVAILABLE IN CIRCUIT 1 ONLY



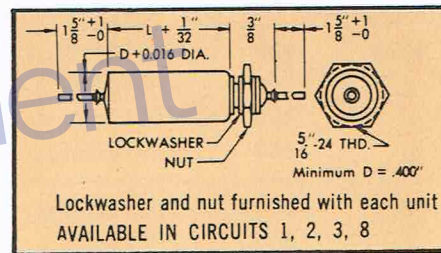
CASE STYLE C



CASE STYLE D



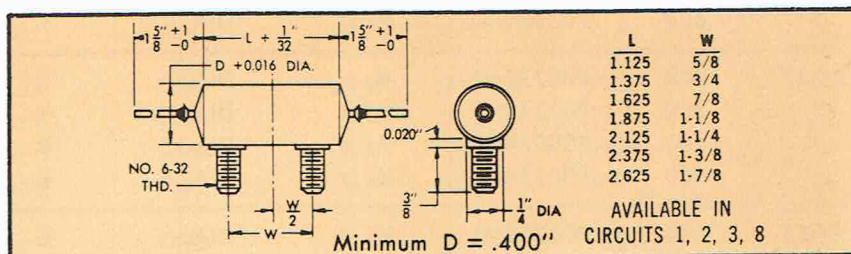
Case floating



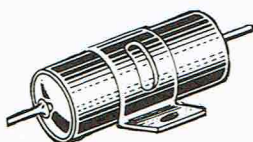
CASE STYLE E



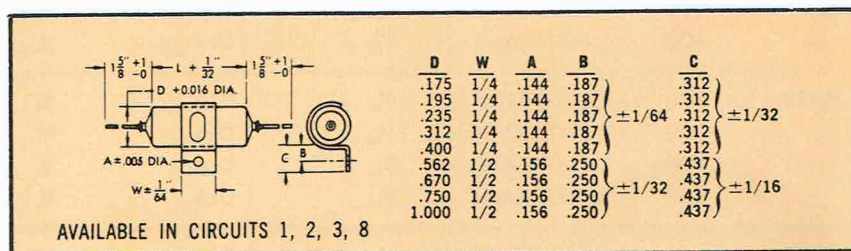
Case floating



CASE STYLE J



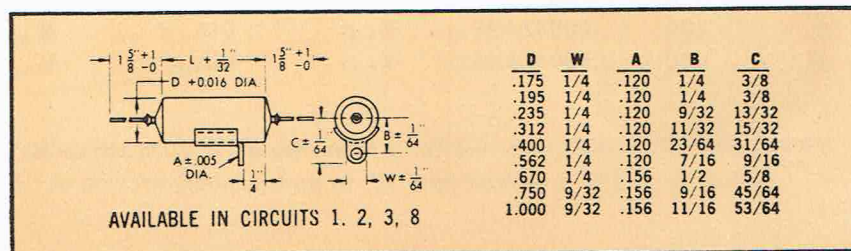
Case floating



CASE STYLE L



Case floating





MYLAR* AND FOIL

Remove Watermark Now

CAP.	VOLTS	PART NO.	WRAPPED UNITS			HERMETICALLY SEALED		
			T ± 1/32	W ± 1/32	L ± 1/32	PART NO.	DIA.	LENGTH
.001	200	P0012MF	5/32	DIA.	3/4	1M2102	.195	3/4
	300	P0013MF	5/32	DIA.	3/4	1M3102	.195	3/4
	400	P0014MF	5/32	DIA.	3/4	1M4102	.195	3/4
	600	P0016MF	5/32	DIA.	3/4	1M6102	.195	3/4
.0012	200	P00122MF	5/32	DIA.	3/4	1M2122	.195	3/4
	300	P00123MF	5/32	DIA.	3/4	1M3122	.195	3/4
	400	P00124MF	5/32	DIA.	3/4	1M4122	.195	3/4
	600	P00126MF	5/32	DIA.	3/4	1M6122	.195	3/4
.0015	200	P00152MF	5/32	DIA.	3/4	1M2152	.195	3/4
	300	P00153MF	5/32	DIA.	3/4	1M3152	.195	3/4
	400	P00154MF	5/32	DIA.	3/4	1M4152	.195	3/4
	600	P00156MF	5/32	DIA.	3/4	1M6152	.195	3/4
.0018	200	P00182MF	5/32	DIA.	3/4	1M2182	.195	3/4
	300	P00183MF	5/32	DIA.	3/4	1M3182	.195	3/4
	400	P00184MF	5/32	DIA.	3/4	1M4182	.195	3/4
	600	P00186MF	5/32	DIA.	3/4	1M6182	.195	3/4
.0022	200	P00222MF	3/16	DIA.	3/4	1M2222	.195	3/4
	300	P00223MF	3/16	DIA.	3/4	1M3222	.195	3/4
	400	P00224MF	3/16	DIA.	3/4	1M4222	.195	3/4
	600	P00226MF	3/16	DIA.	3/4	1M6222	.195	3/4
.0027	200	P00272MF	3/16	DIA.	3/4	1M2272	.195	3/4
	300	P00273MF	3/16	DIA.	3/4	1M3272	.195	3/4
	400	P00274MF	3/16	DIA.	3/4	1M4272	.195	3/4
	600	P00276MF	3/16	DIA.	3/4	1M6272	.195	3/4
.0033	200	P00332MF	3/16	DIA.	3/4	1M2332	.195	3/4
	300	P00333MF	3/16	DIA.	3/4	1M3332	.195	3/4
	400	P00334MF	3/16	DIA.	3/4	1M4332	.195	3/4
	600	P00336MF	3/16	DIA.	3/4	1M6332	.195	3/4
.0039	200	P00392MF	3/16	DIA.	3/4	1M2392	.195	3/4
	300	P00393MF	3/16	DIA.	3/4	1M3392	.195	3/4
	400	P00394MF	3/16	DIA.	3/4	1M4392	.195	3/4
	600	P00396MF	3/16	DIA.	3/4	1M6392	.195	3/4
.0047	200	P00472MF	3/16	DIA.	3/4	1M2472	.195	3/4
	300	P00473MF	3/16	DIA.	3/4	1M3472	.195	3/4
	400	P00474MF	3/16	DIA.	3/4	1M4472	.195	3/4
	600	P00476MF	3/16	DIA.	3/4	1M6472	.195	3/4

Hermetically sealed units are for a tolerance of ± 20%, if ± 10% tolerance is desired add "K" to part number, if ± 5% is desired add "C" to part number.

FILM CAPACITORS

Remove Watermark Now

CAP.	VOLTS	PART NO.	WRAPPED UNITS			HERMETICALLY SEALED		
			T ± 1/32	W ± 1/32	L ± 1/32	PART NO.	DIA.	LENGTH
.0056	200	P00562MF	3/16	DIA.	3/4	1M2562	.195	3/4
	300	P00563MF	3/16	DIA.	3/4	1M3562	.195	3/4
	400	P00564MF	3/16	DIA.	3/4	1M4562	.195	3/4
	600	P00566MF	3/16	DIA.	3/4	1M6562	.235	3/4
.0068	200	P00682MF	3/16	DIA.	3/4	1M2682	.195	3/4
	300	P00683MF	3/16	DIA.	3/4	1M3682	.195	3/4
	400	P00684MF	3/16	DIA.	3/4	1M4682	.195	3/4
	600	P00686MF	3/16	DIA.	3/4	1M6682	.235	3/4
.0082	200	P00822MF	3/16	DIA.	3/4	1M2822	.195	3/4
	300	P00823MF	3/16	DIA.	3/4	1M3822	.195	3/4
	400	P00824MF	3/16	DIA.	3/4	1M4822	.195	3/4
	600	P00826MF	5/32	1/4	3/4	1M6822	.235	3/4
.01	200	P012MF	3/16	DIA.	3/4	1M2103	.195	3/4
	300	P013MF	3/16	DIA.	3/4	1M3103	.195	3/4
	400	P014MF	3/16	DIA.	3/4	1M4103	.195	3/4
	600	P016MF	5/32	1/4	7/8	1M6103	.312	7/8
.012	200	P0122MF	3/16	DIA.	3/4	1M2123	.195	3/4
	300	P0123MF	3/16	DIA.	3/4	1M3123	.195	3/4
	400	P0124MF	3/16	DIA.	3/4	1M4123	.235	3/4
	600	P0126MF	5/32	1/4	7/8	1M6123	.312	7/8
.015	200	P0152MF	3/16	DIA.	3/4	1M2153	.195	3/4
	300	P0153MF	3/16	DIA.	3/4	1M3153	.195	3/4
	400	P0154MF	3/16	DIA.	7/8	1M4153	.312	7/8
	600	P0156MF	7/32	5/32	7/8	1M6153	.312	7/8
.018	200	P0182MF	3/16	DIA.	3/4	1M2183	.195	3/4
	300	P0183MF	3/16	DIA.	3/4	1M3183	.195	3/4
	400	P0184MF	3/16	DIA.	7/8	1M4183	.312	7/8
	600	P0186MF	7/32	5/16	7/8	1M6183	.400	7/8
.022	200	P0222MF	3/16	DIA.	3/4	1M2223	.195	3/4
	300	P0223MF	3/16	DIA.	3/4	1M3223	.235	3/4
	400	P0224MF	5/32	1/4	7/8	1M4223	.312	7/8
	600	P0226MF	1/4	11/32	7/8	1M6223	.400	7/8
.027	200	P0272MF	3/16	DIA.	3/4	1M2273	.195	3/4
	300	P0273MF	3/16	DIA.	7/8	1M3273	.312	7/8
	400	P0274MF	3/16	5/32	7/8	1M4273	.312	7/8
	600	P0276MF	5/32	3/8	7/8	1M6273	.400	7/8

Hermetically sealed units are for a tolerance of ± 20%, if ± 10% tolerance is desired add "K" to part number, if ± 5% is desired add "C" to part number.



MYLAR* AND FOIL

Remove Watermark Now

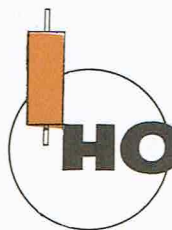
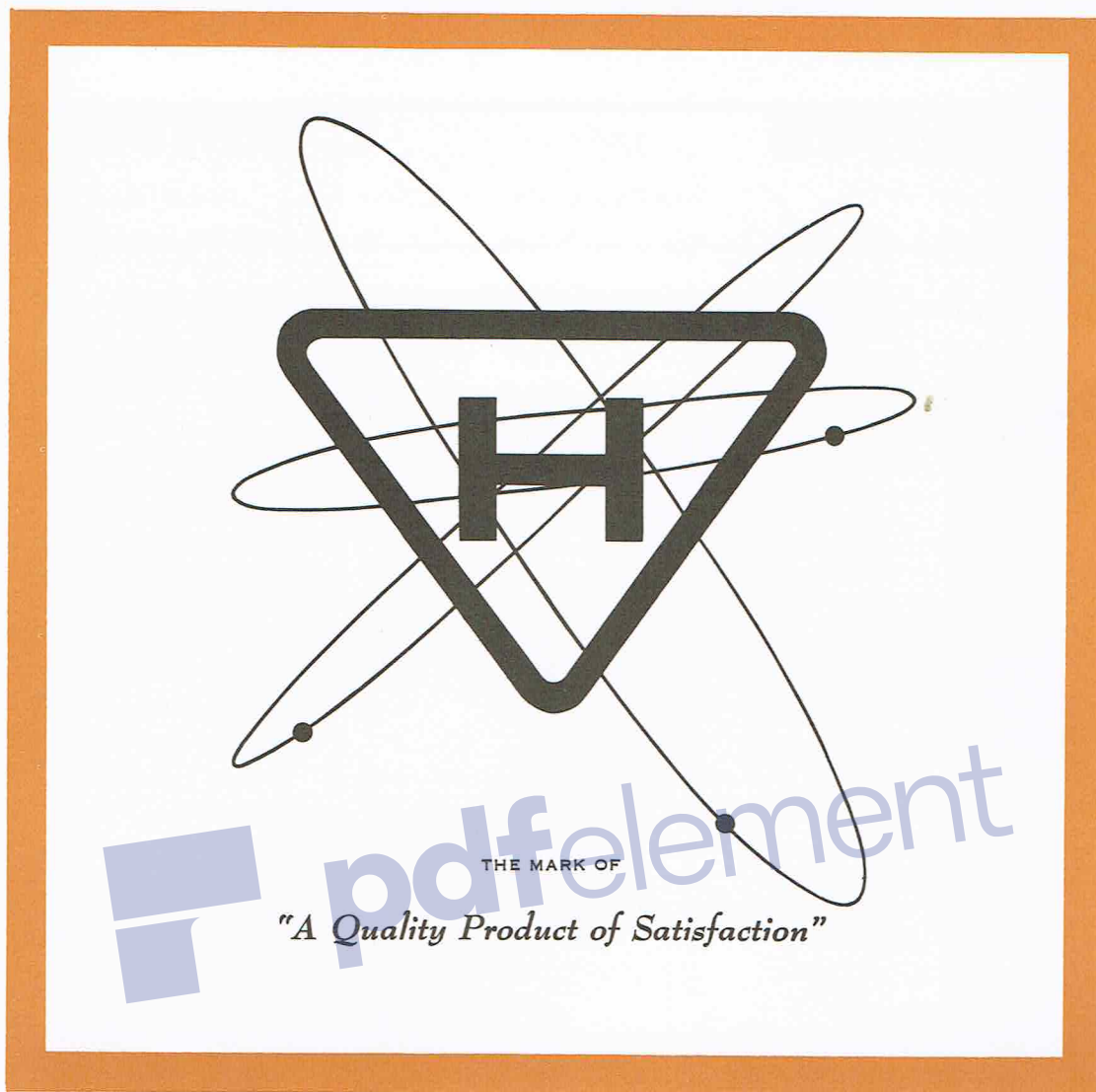
CAP.	VOLTS	PART NO.	WRAPPED UNITS			HERMETICALLY SEALED		
			T ± 1/32	W ± 1/32	L ± 1/32	PART NO.	DIA.	LENGTH
.033	200	P0332MF	3/16	DIA.	3/4	1M2333	.235	3/4
	300	P0333MF	7/32	DIA.	7/8	1M3333	.312	7/8
	400	P0334MF	7/32	5/16	7/8	1M4333	.312	7/8
	600	P0336MF	7/32	5/16	1 1/8	1M6333	.400	1 1/8
.039	200	P0392MF	3/16	DIA.	3/4	1M2393	.235	3/4
	300	P0393MF	5/32	1/4	7/8	1M3393	.312	7/8
	400	P0394MF	7/32	5/16	7/8	1M4393	.312	7/8
	600	P0396MF	1/4	1 1/32	1 1/8	1M6393	.400	1 1/8
.047	200	P0472MF	7/32	DIA.	3/4	1M2473	.235	3/4
	300	P0473MF	3/16	9/32	7/8	1M3473	.312	7/8
	400	P0474MF	1/4	1 1/32	7/8	1M4473	.400	7/8
	600	P0476MF	7/32	3/8	1 3/8	1M6473	.400	1 3/8
.056	200	P0562MF	7/32	DIA.	7/8	1M2563	.312	7/8
	300	P0563MF	3/16	9/32	7/8	1M3563	.312	7/8
	400	P0564MF	9/32	3/8	7/8	1M4563	.400	7/8
	600	P0566MF	9/32	7/16	1 1/8	1M6563	.562	1 1/8
.068	200	P0682MF	5/32	1/4	7/8	1M2683	.312	7/8
	300	P0683MF	7/32	5/16	7/8	1M3683	.312	7/8
	400	P0684MF	7/32	5/16	1 1/8	1M4683	.400	1 1/8
	600	P0686MF	5/16	15/32	1 1/8	1M6683	.562	1 1/8
.082	200	P0822MF	3/16	9/32	7/8	1M2823	.312	7/8
	300	P0823MF	1/4	1 1/32	7/8	1M3823	.400	7/8
	400	P0824MF	9/32	1 1/32	1 1/8	1M4823	.400	1 1/8
	600	P0826MF	1 1/32	1 7/32	1 1/8	1M6823	.562	1 1/8
.1	200	P12MF	7/32	5/16	7/8	1M2104	.312	7/8
	300	P13MF	7/32	5/16	1 1/8	1M3104	.400	1 1/8
	400	P14MF	7/32	3/8	1 3/8	1M4104	.400	1 3/8
	600	P16MF	3/8	9/16	1 1/8	1M6104	.562	1 1/8
.12	200	P122MF	7/32	5/16	7/8	1M2124	.400	7/8
	300	P123MF	7/32	5/16	1 1/8	1M3124	.400	1 1/8
	400	P124MF	1/4	13/32	1 3/8	1M4124	.400	1 3/8
	600	P126MF	3/8	1 7/32	1 3/8	1M6124	.562	1 3/8
.15	200	P152MF	9/32	1 1/32	7/8	1M2154	.400	7/8
	300	P153MF	9/32	1 1/32	1 1/8	1M3154	.400	1 1/8
	400	P154MF	1 1/32	1/2	1 1/8	1M4154	.562	1 1/8
	600	P156MF	9/32	1 7/32	1 5/8	1M6154	.562	1 5/8

Hermetically sealed units are for a tolerance of ± 20%, if ± 10% tolerance is desired add "K" to part number, if ± 5% is desired add "C" to part number.

FILM CAPACITORS

CAP.	VOLTS	PART NO.	WRAPPED UNITS			HERMETICALLY SEALED		
			T ± 1/32	W ± 1/32	L ± 1/32	PART NO.	DIA.	LENGTH
.18	200	P182MF	7/32	5/16	1 1/8	1M2184	.400	1 1/8
	300	P183MF	7/32	3/8	1 3/8	1M3184	.400	1 3/8
	400	P184MF	3/8	17/32	1 1/8	1M4184	.562	1 1/8
	600	P186MF	13/32	9/16	1 5/8	1M6184	.562	1 5/8
.22	200	P222MF	1/4	11/32	1 1/8	1M2224	.400	1 1/8
	300	P223MF	9/32	15/32	1 1/8	1M3224	.562	1 1/8
	400	P224MF	11/32	17/32	1 3/8	1M4224	.562	1 3/8
	600	P226MF	13/32	9/16	1 7/8	1M6224	.562	1 7/8
.27	200	P272MF	9/32	3/8	1 1/8	1M2274	.400	1 1/8
	300	P273MF	11/32	1/2	1 1/8	1M3274	.562	1 1/8
	400	P274MF	13/32	9/16	1 3/8	1M4274	.562	1 3/8
	600	P276MF	15/32	5/8	1 7/8	1M6274	.670	1 7/8
.33	200	P332MF	7/32	13/32	1 3/8	1M2334	.400	1 3/8
	300	P333MF	3/8	17/32	1 1/8	1M3334	.562	1 1/8
	400	P334MF	3/8	9/16	1 5/8	1M4334	.562	1 5/8
	600	P336MF	15/32	5/8	2 1/8	1M6334	.750	2 1/8
.39	200	P392MF	1/4	13/32	1 3/8	1M2394	.400	1 3/8
	300	P393MF	11/32	1/2	1 3/8	1M3394	.562	1 3/8
	400	P394MF	3/8	9/16	1 7/8	1M4394	.562	1 7/8
	600	P396MF	1/2	11/16	2 1/8	1M6394	.750	2 1/8
.47	200	P472MF	11/32	1/2	1 1/8	1M2474	.562	1 1/8
	300	P473MF	3/8	9/16	1 3/8	1M3474	.562	1 3/8
	400	P474MF	13/32	19/32	1 7/8	1M4474	.670	1 7/8
	600	P476MF	19/32	3/4	2 1/8	1M6474	.750	2 1/8
.56	200	P472MF	5/16	1/2	1 3/8	1M2564	.562	1 3/8
	300	P473MF	3/8	17/32	1 5/8	1M3564	.562	1 5/8
	400	P474MF	15/32	21/32	1 7/8	1M4564	.670	1 7/8
	600	P476MF	19/32	3/4	2 3/8	1M6564	.750	2 3/8
.68	200	P682MF	11/32	17/32	1 3/8	1M2684	.562	1 3/8
	300	P683MF	13/32	19/32	1 5/8	1M3684	.562	1 5/8
	400	P684MF	15/32	21/32	2 1/8	1M4684	.750	2 1/8
	600	P686MF	23/32	7/8	2 1/8	1M6684	1.00	2 1/8
.82	200	P822MF	11/32	1/2	1 5/8	1M2824	.562	1 5/8
	300	P823MF	13/32	19/32	1 7/8	1M3824	.562	1 7/8
	400	P824MF	17/32	11/16	2 1/8	1M4824	.750	2 1/8
	600	P826MF	25/32	31/32	2 1/8	1M6824	1.00	2 1/8
1.0	200	1P2MF	3/8	9/16	1 5/8	1M2105	.562	1 5/8
	300	1P3MF	15/32	5/8	1 7/8	1M3105	.670	1 7/8
	400	1P4MF	9/16	23/32	2 3/8	1M4105	.750	2 3/8
	600	1P6MF	13/16	31/32	2 3/8	1M6105	1.00	2 3/8

Hermetically sealed units are for a tolerance of ± 20%, if ± 10% tolerance is desired add "K" to part number, if ± 5% is desired add "C" to part number.



HOPKINS *Engineering* **COMPANY**

12900 FOOTHILL BOULEVARD
SAN FERNANDO, CALIFORNIA
EMPIRE 1-8693