SERIE MP3 POLYPROPYLENE FILM CAPACITORS

1.- **Application** : Used in electronic lighting (i. e. car headlamp and ballast)

2.- **Construction:**

1.Polypropylene film & Double sided metallized polyester film.

2.Metal spray : Special solder.

3.Lead wire : Tinned clad copper wire.

4.Inner coating : Epoxy resin.

5.Outer coating : Plastic case (UL-94V-0 Standard)

3. Electrical characteristics

A.- . Rated Voltage (VR): 300VAC (800VDC) , 400VAC (1000VDC), 500VAC (1200VDC) , 700VAC (1600VDC) , 900VAC (2000VDC).

B.- Category voltage (Vc): 1.Up to 85ºC, Vc = VR(DC)
2.Up to 105 C Vc = VR (AC)

For temperature between +85ºC and +105ºC a decreasing factor of 1.25% per degree C on the nominal voltage VR(DC) has to be applied.

C.- Operating temperature range: - 40 C to +105 C.

MP3

D.- .Dissipation factor (DF) :

$\tan\delta \times 10^{-4}$ at 25°C± 5°C

KHZ	C< 0.01uF	0.01≤C≤0.1uF
1	≤ 5	≤ 5
10	≤ 6	≤ 8
100	≤10	≤10

E.-Insulation resistance: Under a temperature of 25° +-5° C and during 1 minute a 100Vdc, the capactitor has a performance of >=50000MHz

F.- Test voltage between termination: 1.6 x VR applied for 2 sec , at 25° C+- 5° C

G.- MAX. Pulse rise time (dv/dt)

V_R (ac)	Lead Spacing 15m/m	22.5m/m
300	3000 V/μ s	1500 V/μ s
400	3400 V/μ s	2200 V/μ s
500	5000 V/μ s	3000 V/μ s
700	9500 V/μ s	5000 V/μ s
900	------- ------	10000 V/μ s

H.- Electrical endurance : (Testing method IEC 60384-17)
125% of rated voltage(AC 60HZ) shall be applied to the capacitor at a temperature of 105± 2°C for 2000 hours. And then the capacitor shall be subjected to standard atmospheric conditions for 1 to 2 hours, after which measurement shall be made.

Performance:

Capacitance change ΔC/ C: ≤± 3%
DF change Δtanδ : ≤ 0.1% at 1KHZ
Insulation resistance ≥ 50% of limit value.

MP3 DIMENSIONS

TYPE: MP3 **UNIT:** m/m

	W	H	T	P	W	H	T	P	W	H	T	P	W	H	T	P	W	H	T	P
Cap. nF	300Vac				400Vac				500Vac				700Vac				900Vac			
1,0					13	9	4	D	18	11	5	E	18	11	5	E	26	13,5	6	H
1,2					13	9	4	D	18	11	5	E	18	11	5	E	26	13,5	6	H
1,5					13	9	4	D	18	11	5	E	18	11	5	E	26	13,5	6	H
1,5					13	11	5	D	18	11	5	E	18	11	5	E	26	13,5	6	H
2,2					13	11	5	D	18	11	5	E	18	11	5	E	26	13,5	6	H
2,7					13	11	5	D	18	11	5	E	18	12	6	E	26	13,5	6	H
3,3					13	11	5	D	18	11	5	E	18	12	6	E	26	13,5	6	H
3,9					13	12	6	D	18	11	5	E	18	13,5	7,5	E	26	13,5	6	H
4,7					13	13	7	D	18	11	5	E	18	13,5	7,5	E	26	13,5	6	H
5,6					13	13	7	D	18	12	6	E	18	13,5	7,5	E	26	13,5	6	H
6,8					18	11	5	E	18	12	6	E	18	14,5	8,5	E	26	16,5	7	H
8,2					18	11	5	E	18,0	13,5	7,5	E	18	13,5	12	E	16	16,5	7	H
10,0	18	11,0	5,0	E	18	12	6	E	18,0	13,5	7,5	E	26	13,5	7	H	26	17	8,5	H
12,0	18	11,0	5,0	E	18	12	6	E	18,0	14,5	8,5	E	26	16,5	7	H	26	19	10	H
15,0	18	11,0	5,0	E	18	13,5	7,5	E	18,0	15,0	9,0	E	26	17,0	8,5	H	26	19	10	H
18,0	18	12,0	6,0	E	18	13,5	7,5	E	26,0	15,0	6,0	H	26	19,0	10	H	26	19	10	H
22,0	18	13,5	7,5	E	18	14,5	8,5	E	26,0	16,5	7,0	H	26	19,0	10	H				
27,0	18	13,5	7,5	E	18	16,5	10	E	26,0	17,0	8,5	H	26	20,0	11	H				
33,0	18	13,5	7,5	E	26	16,5	7	H												
39,0	18	14,5	8,5	E	26	16,5	7	H												
47,0	18	16,5	10	E	26	17,0	8,5	H												
56,0	18	16,5	10	E																
56,0	26	16,5	7	H	26	19,0	10,0	H												
68,0	26	16,0	7	H	26	19,0	10,0	H												
82,0	26	17,0	8,5	H	26	19,0	10,0	H												
100,0	26	19	10	H	26	20,0	11,0	H												

D= Pitch of 10mm

E= Pitch of 15mm

H= Pitch of 22,5mm

Leads diameter of 0,8mm

MP3 DIMENSIONS

TYPE: MP3 **UNIT:** m/m

									Low Profile Dimension											
	W	H	T	P	W	H	T	P	W	H	T	P	W	H	T	P	W	H	T	P
Cap. nF	300Vac				400Vac				500Vac				700Vac				900Vac			
68													18	13,5	9	E	26	13,5	8	H
0,082													26	13,5	7	H	26	13,5	11	H
10													26	13,5	7	H	26	13,5	12	H
12									18	13,5	9	E	26	13,5	8	H	26	13,5	13,5	H
15									18	13,5	10	E	26	13,5	10	H	26	13,5	15	H
18									26	13,5	7,5	H	26	13,5	12	H	26	13,5	17	H
22					18	13,5	12,0	E	26	13,5	8	H	26	13,5	14	H				
27					18	13,5	13,5	E	26	13,5	10	H	26	13,5	15	H				
33					26	13,5	8,0	H												
39	18	13,5	12	E	26	13,5	11,0	H												
47	18	13,5	14	E	26	13,5	12,0	H												
56	18	13,5	15	E																
56	26	13,5	8	H	26	13,5	12,0	H												
68	26	13,5	12	H	26	13,5	14,0	H												
82	26	13,5	14	H	26	13,5	17,0	H												
100	26	13,5	15	H	26	13,5	18,0	H												

D= Pitch of 10mm

E= Pitch of 15mm

H= Pitch of 22,5mm

Leads diameter of 0,8mm