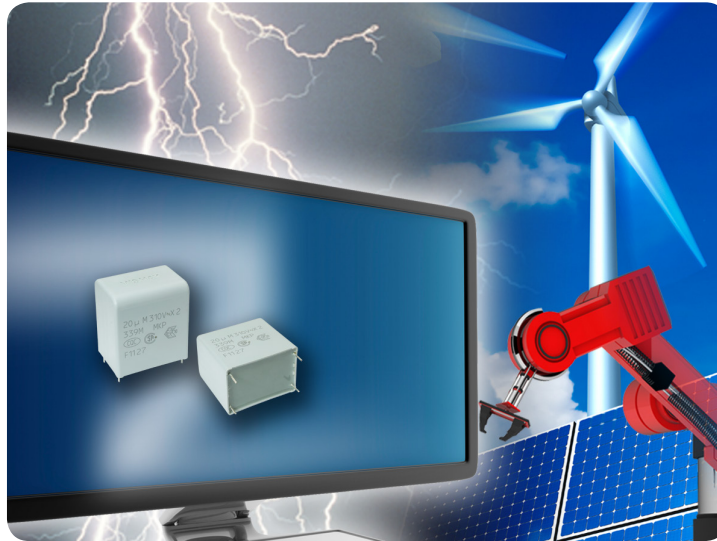


## RFI Suppression Capacitors



### BENEFITS

- Safe end of life
- Reduces electromagnetic interference
- Operating temperatures up to 110 °C

### APPLICATIONS

- X class capacitor: capacitors directly connected in parallel with the mains without any other impedance or circuit protection
- Y class capacitors: capacitors directly connected in parallel between the mains and ground

### RESOURCES

- RFI film capacitor product portfolio: <http://www.vishay.com/capacitors/film/film-polyester-rfi/> and <http://www.vishay.com/capacitors/film/film-polypropylene-rfi/>
- AC film capacitors in connection with the mains: <http://www.vishay.com/doc?28153>
- Technical questions: [RFI@vishay.com](mailto:RFI@vishay.com)
- Sales contacts: [www.vishay.com/doc?99914](http://www.vishay.com/doc?99914)





**CAPACITORS**  
Film



Capacitors - High-Performance RFI Film Capacitors

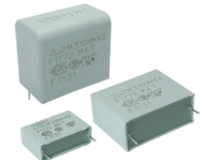
RFI Suppression Class	X2			
Series	F339MX2	MKP339 X2	F1772-2 310V-X2	F1773
Dielectric	Metallized Polypropylene Film		Metallized Polyester Film	
Approvals	IEC 60384-14 ed-3 and EN 60384-14			
	IEC 60065, pass. flamm. class B		IEC 60065 pass. flamm. class C	
	UL60384-14	UL1283, UL1414		UL 1283
	CSA-E384-14			CSA
Tolerance (%)	±5, ±10, ±20		±10, ±20	
Rated Voltage (Vac)	310	310	310	253
Rated Capacitance (µF)	Lead space or length (+) (mm)			
0.0010	7.5/10	7.5/10		
0.0012	7.5/10	7.5/10		
0.0015	7.5/10	7.5/10		
0.0018	7.5/10	7.5/10		
0.0022	7.5/10	7.5/10		
0.0027	7.5/10	7.5/10		
0.0033	7.5/10	7.5/10		
0.0039	7.5/10	7.5/10		
0.0047	7.5/10	7.5/10		
0.0056	7.5/10	7.5/10		
0.0068	7.5/10	7.5/10		
0.0082	7.5/10	7.5/10		
0.0100	7.5/10/15	7.5/10/15	15	19+
0.0120	7.5/10/15	7.5/10/15	15	19+
0.0150	7.5/10/15	7.5/10/15	15	19+
0.0180	7.5/10/15	7.5/10/15	15	19+
0.0220	7.5/10/15	7.5/10/15	15	19+
0.0270	7.5/10/15	7.5/10/15	15	19+
0.0330	7.5/10/15	7.5/10/15	15	19+
0.0390	7.5/10/15	7.5/10/15	15	19+
0.0470	7.5/10/15	7.5/10/15	15	19+
0.0560	7.5/10/15	7.5/10/15	15	19+
0.0680	7.5/10/15	7.5/10/15	15	19+
0.0820	7.5/10/15	7.5/10/15	15	19+
0.1000	7.5/10/15	7.5/10/15	15	19+
0.1200	7.5/10/15/22.5	7.5/15/22.5	15	19+
0.1500	7.5/10/15/22.5	7.5/15/22.5	15/22.5	26.5+
0.1800	7.5/15/22.5	7.5/15/22.5	22.5	26.5+
0.2200	7.5/15/22.5	7.5/15/22.5	15/22.5	26.5+
0.2700	7.5/15/22.5	7.5/15/22.5	22.5	26.5+
0.3300	7.5/15/22.5	7.5/15/22.5	15/22.5	26.5+
0.3900	7.5/15/22.5/27.5	7.5/15/22.5	27.5	26.5+
0.4700	7.5/15/22.5/27.5	7.5/15/22.5/27.5	22.5/27.5	26.5+
0.5600	15/22.5/27.5	15/22.5	27.5	31.5+
0.6800	15/22.5/27.5	15/22.5/27.5	22.5/27.5	31.5+
0.8200	22.5/27.5	22.5/27.5	27.5	31.5+
1.0000	22.5/27.5	22.5/27.5	22.5/27.5	31.5+
1.2000	22.5/27.5	22.5/27.5	37.5	31.5+
1.5000	22.5/27.5	22.5/27.5	27.5/37.5	41.5+
1.8000	22.5/27.5	27.5	37.5	41.5+
2.2000	22.5/27.5	27.5	27.5/37.5	41.5+
2.7000	22.5/27.5	27.5		
3.3000	22.5/27.5/37.5	27.5		
3.9000	27.5/37.5	27.5		
4.7000	27.5/37.5	27.5		
5.6000	27.5/37.5			
6.8000	27.5/37.5			
8.2000	37.5			
10.0000	37.5			
15.0000	37.5			
20.0000	37.5/52.5			
25.0000	52.5			
30.0000	52.5			
35.0000	52.5			
40.0000	52.5			



F339MX2



MKP339 X2



F1772-2 310V-X2



F1773

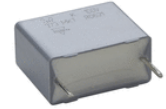


**CAPACITORS**  
Film

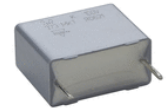


Capacitors - High-Performance RFI Film Capacitors

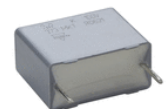
RFI Suppression Class	X1			Y2
Series	MKP338 1 X1	NEW F338 X1 330Vac	NEW F338 X1 480Vac	MKP338 6 Y2
Dielectric	Metallized Polypropylene Film			
Approvals	IEC 60384-14 ed-3 and EN 60384-14			
	IEC 60065, pass. flamm. class B			
	UL1414; UL1283	UL60384-14 CQC		UL1414, UL1283
	CSA-C22.2 No. 8	CSA-E384-14		CSA - C22.2 No. 1; ENEC; CSA E 384-14-95
Tolerance (%)	±5, ±10, ±20	±10, ±20 (±5 on request)	±5, ±10, ±20	
Rated Voltage (Vac)	440	330	480	300
Rated Capacitance (µF)	Lead Space or length (+) (mm)			
0.0010		7.5/10	10	7.5/10
0.0012		7.5/10	10	7.5/10
0.0015		7.5/10	10	7.5/10
0.0018		7.5/10	10	7.5/10
0.0022		7.5/10	10	7.5/10
0.0027		7.5/10	10	7.5/10
0.0033		7.5/10	10	7.5/10
0.0039		7.5/10	10	7.5/10
0.0047		7.5*/10	10	7.5/10
0.0056		7.5*/10	10	7.5/10
0.0068		7.5*/10	10	7.5*/10/15
0.0082		7.5*/10	10	7.5*/10/15
0.0100	7.5*/15	7.5*/10/15	7.5*/10	7.5*/10/15
0.0120	7.5*/15	7.5*/10/15	7.5*/15	7.5*/15
0.0150	7.5*/15	7.5*/10/15	7.5*/15	7.5*/15
0.0180	7.5*/15	7.5*/10/15	7.5*/15	7.5*/15
0.0220	7.5*/15	7.5*/10/15	7.5*/15	7.5*/15
0.0270	7.5*/15	7.5*/10/15	7.5*/15	7.5*/15
0.0330	7.5*/15	7.5*/10/15	7.5*/15	7.5*/15
0.0390	7.5*/15	7.5*/15	7.5*/15	7.5*/15
0.0470	7.5*/15	7.5*/15	7.5*/15/22.5	7.5*/15/22.5
0.0560	7.5*/15	7.5*/15	7.5*/15/22.5	7.5*/15/22.6
0.0680	7.5*/15	7.5*/15	7.5*/15/22.5	22.5
0.0820	7.5*/15	7.5*/15	7.5*/15/22.5	22.5
0.1000	7.5*/15/22.5	7.5*/15/22.5	7.5*/15/22.5	22.5/27.5
0.1200	22.5	7.5*/15/22.5	22.5	22.5/27.6
0.1500	22.5	7.5*/15/22.5	22.5/27.5	22.5/27.7
0.1800	22.5	7.5*/15/22.5	22.5/27.5	27.5
0.2200	22.5/27.5	7.5*/15/22.5/27.5	22.5/27.5	27.5
0.2700	27.5	22.5/27.5	22.5/27.5	27.5
0.3300	27.5	22.5/27.6	22.5/27.5	27.5
0.3900	27.5	22.5/27.7	22.5/27.5	27.5
0.4700	27.5	22.5/27.8	22.5/27.5	27.5
0.5600	27.5	22.5/27.9	22.5/27.5	
0.6800	27.5	22.5/27.10	22.5/27.5	
0.8200	27.5	22.5/27.11	22.5/27.5	
1.0000	27.5	22.5/27.12	22.5/27.5	
1.2000		22.5/27.13		
1.5000		22.5/27.14		
1.8000		22.5/27.15		
2.2000		22.5/27.16		



MKP338 1 X1



NEW F338 X1 330Vac



NEW F338 X1 480Vac



MKP338 6 Y2

**WORLDWIDE SALES CONTACTS****THE AMERICAS****UNITED STATES**

VISHAY AMERICAS  
ONE GREENWICH PLACE  
SHELTON, CT 06484  
UNITED STATES  
PH: +1-402-563-6866  
FAX: +1-402-563-6296

**ASIA****SINGAPORE**

VISHAY INTERTECHNOLOGY ASIA PTE LTD.  
37A TAMPINES STREET 92 #07-00  
SINGAPORE 528886  
PH: +65-6788-6668  
FAX: +65-6788-0988

**P.R. CHINA**

VISHAY CHINA CO., LTD.  
15D, SUN TONG INFOPORT PLAZA  
55 HUAI HAI WEST ROAD  
SHANGHAI 200030  
P.R. CHINA  
PH: +86-21-5258 5000  
FAX: +86-21-5258 7979

**JAPAN**

VISHAY JAPAN CO., LTD.  
SHIBUYA PRESTIGE BLDG. 4F  
3-12-22, SHIBUYA  
SHIBUYA-KU  
TOKYO 150-0002  
JAPAN  
PH: +81-3-5466-7150  
FAX: +81-3-5466-7160

**EUROPE****GERMANY**

VISHAY ELECTRONIC GMBH  
DR.-FELIX-ZANDMAN-PLATZ 1  
95100 SELB  
GERMANY  
PH: +49-9287-71-0  
FAX: +49-9287-70435

**FRANCE**

VISHAY S.A.  
199, BD DE LA MADELEINE  
06003 NICE, CEDEX 1  
FRANCE  
PH: +33-4-9337-2727  
FAX: +33-4-9337-2726

**UNITED KINGDOM**

VISHAY LTD.  
SUITE 6C, TOWER HOUSE  
ST. CATHERINE'S COURT  
SUNDERLAND ENTERPRISE PARK  
SUNDERLAND SR5 3XJ  
UNITED KINGDOM  
PH: +44-191-516-8584  
FAX: +44-191-549-9556