

### INTRODUCTION

MPX Series are constructed with special Metalized/Polypropylene film dielectric, copperly lead, in plastic case and epoxy resin sealed. They are suitable for Line-By-Pass, antenna coupling, Across-The-Line and spark killer circuits and available for EMI filter and switching power supply application.

### SPECIFICATIONS

| Type                        | Performance                 |
|-----------------------------|-----------------------------|
| Operating Temperature Range | -40 °C ~ +100 °C            |
| Capacitance Range           | 0.001 ~ 2.2 μF              |
| Capacitance Tolerance       | +5% (J), ±10% (K), ±20% (M) |
| Rate Voltage (50-60Hz)      | 275 VAC ~ 305 VAC           |
| Dissipation Factor          | 0.1% max at 1KHz, 25 °C     |
| Insulation Resistance       | ≥3500M (≤0.33 μF)           |
|                             | 1000M μF(C>0.33 μF)         |
| Dielectric Strength Test    | 2000VDC for 1 second        |
| Testing Voltage             | 1185VDC 60 seconds          |
|                             | 2000VDC for 1 second        |

### FEATURES

- 275 and 305 VAC
- Non-inductive construction
- Self-healing property
- Flame-retardant plastic case and epoxy resin (compliant to UL 94V-0)
- High moisture resistance
- 2.5 KV class X-2 withstand voltage

### APPROVED/RECOGNIZED TYPE

| Approval Standard                | File No.                                     | Monogram |
|----------------------------------|--|----------|
| UL<br>UL 1283, UL 1414           | USA<br>E200768                               |          |
| CSA<br>C22.2                     | Canada<br>No. 1-1994<br>LR91290-9<br>1197629 |          |
| VDE<br>VDE 565                   | Germany<br>Teil 1/12.79<br>1360014           |          |
| SEMKO<br>SS4430414               | Sweden<br>0114202/01                         |          |
| FIMKO<br>E384/14-93              | Finland<br>1072A1                            |          |
| NEMKO<br>132/85                  | Norway<br>P01100681                          |          |
| DEMKO<br>StaerKkst. Regl 1962-21 | Denmark<br>307986-02                         |          |
| TSM<br>SEV 1055/1978             | Switzerland<br>D1-BS-0128                    |          |
| CCEE<br>GB/T14472-93             | China<br>CQC03001008427                      |          |

### DIMENSIONS

| μF     | Code | 275 & 305 VAC |      |     |      |     |
|--------|------|---------------|------|-----|------|-----|
|        |      | W             | H    | T   | P    | dφ  |
| 0.0010 | 102  | 10.5          | 9.0  | 4.0 | 7.5  | 0.6 |
| 0.0012 | 122  | 10.5          | 9.0  | 4.0 | 7.5  | 0.6 |
| 0.0015 | 152  | 10.5          | 9.0  | 4.0 | 7.5  | 0.6 |
| 0.0018 | 182  | 10.5          | 9.0  | 4.0 | 7.5  | 0.6 |
| 0.0022 | 222  | 10.5          | 9.0  | 4.0 | 7.5  | 0.6 |
| 0.0027 | 272  | 10.5          | 9.0  | 4.0 | 7.5  | 0.6 |
| 0.0033 | 332  | 10.5          | 11.0 | 5.0 | 7.5  | 0.6 |
| 0.0039 | 392  | 10.5          | 11.0 | 5.0 | 7.5  | 0.6 |
| 0.0047 | 472  | 10.5          | 11.0 | 5.0 | 7.5  | 0.6 |
| 0.0056 | 562  | 10.5          | 11.0 | 5.0 | 7.5  | 0.6 |
| 0.0068 | 682  | 10.5          | 11.0 | 5.0 | 7.5  | 0.6 |
| 0.0082 | 822  | 10.5          | 11.0 | 5.0 | 7.5  | 0.6 |
| 0.0100 | 103  | 10.5          | 9.0  | 4.0 | 7.5  | 0.6 |
| 0.0100 | 103  | 13.0          | 11.0 | 5.0 | 10.0 | 0.6 |
| 0.0120 | 123  | 10.5          | 9.0  | 4.0 | 7.5  | 0.6 |
| 0.0120 | 123  | 13.0          | 11.0 | 5.0 | 10.0 | 0.6 |
| 0.0150 | 153  | 10.5          | 9.0  | 4.0 | 7.5  | 0.6 |
| 0.0150 | 153  | 13.0          | 11.0 | 5.0 | 10.0 | 0.6 |
| 0.0180 | 183  | 10.5          | 9.0  | 4.0 | 7.5  | 0.6 |
| 0.0180 | 183  | 13.0          | 11.0 | 5.0 | 10.0 | 0.6 |
| 0.0220 | 223  | 10.5          | 9.0  | 4.0 | 7.5  | 0.6 |
| 0.0220 | 223  | 13.0          | 11.0 | 5.0 | 10.0 | 0.6 |

| μF     | Code | 275 & 305 VAC |      |     |      |     |
|--------|------|---------------|------|-----|------|-----|
|        |      | W             | H    | T   | P    | dφ  |
| 0.0270 | 273  | 10.5          | 9.0  | 5.0 | 7.5  | 0.6 |
| 0.0270 | 273  | 13.0          | 12.0 | 6.0 | 10.0 | 0.6 |
| 0.0330 | 333  | 10.5          | 11.0 | 5.0 | 7.5  | 0.6 |
| 0.0330 | 333  | 13.0          | 12.0 | 6.0 | 10.0 | 0.6 |
| 0.0330 | 333  | 18.0          | 11.0 | 5.0 | 15.0 | 0.8 |
| 0.0390 | 393  | 10.5          | 11.0 | 6.0 | 7.5  | 0.6 |
| 0.0390 | 393  | 13.0          | 11.0 | 5.0 | 10.0 | 0.6 |
| 0.0390 | 393  | 18.0          | 11.0 | 5.0 | 15.0 | 0.6 |
| 0.0470 | 473  | 10.5          | 12.0 | 6.0 | 7.5  | 0.6 |
| 0.0470 | 473  | 13.0          | 11.0 | 5.0 | 10.0 | 0.6 |
| 0.0470 | 473  | 18.0          | 11.0 | 5.0 | 15.0 | 0.6 |
| 0.0560 | 563  | 18.0          | 12.0 | 6.0 | 15.0 | 0.6 |
| 0.0560 | 563  | 13.0          | 11.0 | 5.0 | 10.0 | 0.6 |
| 0.0680 | 683  | 18.0          | 12.0 | 6.0 | 15.0 | 0.6 |
| 0.0680 | 683  | 13.0          | 11.0 | 6.0 | 10.0 | 0.6 |
| 0.0820 | 823  | 13.0          | 12.0 | 6.0 | 10.0 | 0.6 |
| 0.0820 | 823  | 18.0          | 12.0 | 6.0 | 15.0 | 0.6 |
| 0.1000 | 104  | 13.0          | 12.0 | 6.0 | 10.0 | 0.6 |
| 0.1000 | 104  | 18.0          | 11.0 | 5.0 | 15.0 | 0.6 |
| 0.1500 | 154  | 18.0          | 14.5 | 8.5 | 15.0 | 0.8 |
| 0.1500 | 154  | 26.5          | 16.5 | 7.0 | 22.5 | 0.8 |
| 0.1800 | 184  | 18.0          | 14.5 | 8.5 | 15.0 | 0.8 |

| μF     | Code | 275 & 305 VAC |      |      |      |     |
|--------|------|---------------|------|------|------|-----|
|        |      | W             | H    | T    | P    | dφ  |
| 0.2200 | 224  | 18.0          | 13.5 | 7.5  | 15.0 | 0.8 |
| 0.2200 | 224  | 26.5          | 15.0 | 7.0  | 22.5 | 0.8 |
| 0.2700 | 274  | 26.5          | 17.0 | 8.5  | 22.5 | 0.8 |
| 0.3300 | 334  | 18.0          | 16.0 | 10.0 | 15.0 | 0.8 |
| 0.3300 | 334  | 26.5          | 17.5 | 8.5  | 22.5 | 0.8 |
| 0.3900 | 394  | 26.5          | 19.0 | 10.0 | 22.5 | 0.8 |
| 0.4700 | 474  | 18.0          | 19.0 | 11.0 | 15.0 | 0.8 |
| 0.4700 | 474  | 26.5          | 19.0 | 11.0 | 22.5 | 0.8 |
| 0.4700 | 474  | 32.0          | 20.0 | 11.0 | 27.5 | 0.8 |
| 0.5600 | 564  | 32.0          | 20.0 | 11.0 | 27.5 | 0.8 |
| 0.6800 | 684  | 32.0          | 20.0 | 11.0 | 27.5 | 0.8 |
| 0.8200 | 824  | 32.0          | 22.0 | 13.0 | 27.5 | 0.8 |
| 1.0000 | 105  | 26.5          | 22.0 | 12.0 | 22.5 | 0.8 |
| 1.0000 | 105  | 32.0          | 22.0 | 13.0 | 27.5 | 0.8 |
| 1.1000 | 115  | 32.0          | 25.0 | 14.0 | 27.5 | 0.8 |
| 1.2000 | 125  | 32.0          | 25.0 | 14.0 | 27.5 | 0.8 |
| 1.4000 | 145  | 32.0          | 30.0 | 15.0 | 27.5 | 0.8 |
| 1.5000 | 155  | 32.0          | 30.0 | 15.0 | 27.5 | 0.8 |
| 1.6000 | 165  | 32.0          | 33.0 | 18.0 | 27.5 | 0.8 |
| 1.8000 | 185  | 32.0          | 33.0 | 18.0 | 27.5 | 0.8 |
| 2.0000 | 205  | 32.0          | 33.0 | 18.0 | 27.5 | 0.8 |
| 2.2000 | 225  | 32.0          | 33.0 | 18.0 | 27.5 | 0.8 |

### PART NUMBER EXAMPLE

MPX 474 K 275VAC 225 B 200 S

