Metalized Polyester Capacitors A-05-17-05 **I 5150-I 5154**

Stacked layer construction. Self-healing capacitor with polyester as dielectric. Epoxy resin dipped. Radial tinned copper leads.

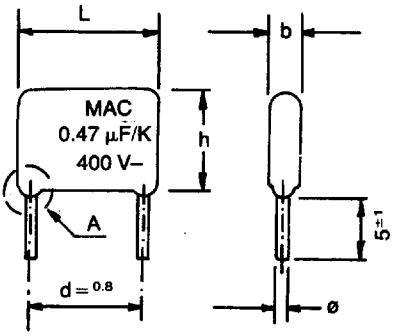
Ordering code

Example: 0.47 / 10 / 100 / 515x

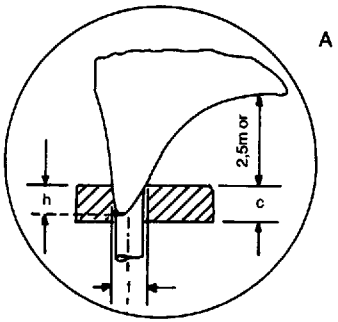
- Rated capacitance
- Tolerance
- Rated Voltage (U_R)
- Code
  - 0 = L.S. 7.5 mm
  - 1 = L.S. 10 mm
  - 2 = L.S. 15 mm
  - 3 = L.S. 22.5 mm
  - 4 = L.S. 27.5 mm

d (mm)	ø (mm)	L (mm)
7.5	0.6	11
10	0.8	13
15	0.8	18

*15mm available under request



Detail of meniscus:



PC Board Thickness	C = 1 mm	C = 1.5 mm
Hole Diameter	F = 1 mm	F = 1.5 mm
Maximum penetration	h ≤ 0.8 mm	h ≤ 1.3 mm

Technical Data:

Climatic category in accordance with DIN 40040	**G** – minimum category temperature ..... –40C **M** – maximum category temperature ..... +100C **F** – average relative humidity (RH) ..... ≤65% 60 days per year ..... 75% 30 days per year 85%
Damp heat test in accordance with DIN 40046 and IEC 384-2	Conditions: Test temperature ..... (40±2)C Relative humidity ..... (92±3)% Test duration ..... 21 days After test: R_{ins} ≤ 50% of the minimum value at delivery ΔC C ≤ 5% $\Delta tg\delta$ at 1 kHz ≤ 5×10^{-3} 40/100/21
Solder conditions	Temperature solder bath: max. 260°C Solder duration: 5 s Distance to the soldering joint: min. 6 mm.
Self inductance	lead space (mm) 7.5 / 10 / 15 Self indutance (nH) 5 / 6 / 7
Dissipation factor tg δ (measured at 20°C)	Maximum limit value / Average value 1 kHz: 10.10^{-3} / 5.10^{-3} 10 kHz: 20.10^{-3} / 15.10^{-3}
Capacitance drift i_z	± 3%

Metalized Polyester Capacitors
MKT Capacitors - Epoxy Coated

A-05-17-05

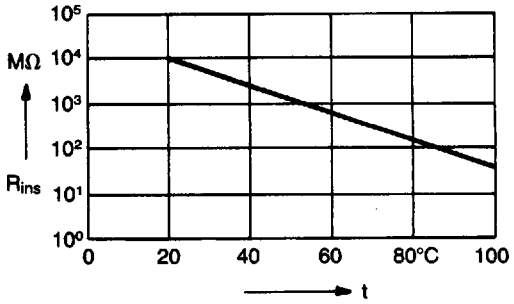
I 5150 –
I 5154

SIEMENS AKTIENGESELLSCHAF 47E D

Lead spacing			LS 27.5mm			
Rated dc voltage			100V	250V	400V	630V
Rated capacitance C_R		Tolerance	Maximum Dimensions b x h x l (mm) 5154 –			
0.01	µF					
0.015	µF					
0.022	µF					
0.033	µF					
0.047	µF					
0.068	µF					
0.1	µF					
0.15	µF					
0.22	µF					
0.33	µF	± 20% M				10.0x23.5x31.0
0.47	µF	± 10% K				12.0x25.5x31.0
0.68	µF	± 5% J			11.0x23.5x31.0	
1	µF				13.0x24.5x31.0	
1.5	µF			9.0x22.5x31.0		
2.2	µF			10.5x24.5x31.0		
3.3	µF			14.0x26.5x31.0		
4.7	µF		13.0x21.5x31.0			
6.8	µF		14.0x23.5x31.0			

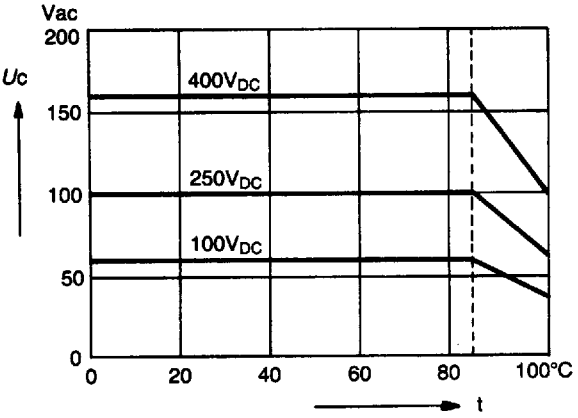
Insulation resistance
as a function of temperature
(Typical values, measured at 25°C)

U_R	$C \leq 0.33\ \mu F$	$C > 0.33\ \mu F$
100 V	> 15000 MΩ	5000 s
250 V 400 V	> 30000 MΩ	> 10000 s



Category voltage *Uc*
at ac/dc operation
as a function of temperature t
(50 Hz ac operation)

max. 2000 hours 1.25 x *Uc*



Reversible capacitance change $\frac{\Delta C}{C}$

as a function of temperature at 1 kHz
(Typical values)