

MKT Film Capacitors

C5563 = Product group; Product group discount C 55 6_

WIMA MKT Film Capacitors
Style: Bulk
Rated Voltage: 400/630V DC
Tolerance: 10%
Pitch: 7,5...27,5mm
Series: MKS4

- Features
- Dielectric: polyethylene-terephthalate (PET) film
 - Vacuum-deposited capacitor electrodes
 - Encapsulation: solvent-resistant, flame-retardent plastic case with epoxy resin seal, UL94V-0
 - Terminations: tinned wire
 - High volume/capacitance ratio and reduced base
 - Self-healing

Typical Applications
For general DC-applications e.g. By-pass, Blocking, Coupling and decoupling, Timing.

Technical Specifications

Rated Voltages (U_N):see Table

Test Voltage (2s):1,6xU_N

Capacitance tolerances:±10%

Operating temperature range:-55...+100°C

Climatic test category IEC:55/100/56

Insulation resistance

C≤330nF:≥30000MΩ

C>330nF:≥10000s

Reliability (failure rate) (40°C, 0,5 x U_N):2,0 fit¹⁾

¹⁾ 1 fit = 1x10⁻⁹ Failure Components/Hour

Part Nr.	C _N	U _N	U _{eff}	B	H	L	RM
MKS4_	[nF/μF]	[V DC]	[V AC]	[mm]	[mm]	[mm]	[mm]
N010K630-7	10	630	400	3,0	8,5	10	7,5
N015K630-7	15	630	400	4,0	9,0	10,0	7,5
N022K630-7	22	630	400	4,5	9,5	10,3	7,5
N047K630-7	47	630	400	5,7	12,5	10,3	7,5
N100K400-10	100	400	200	5,0	11,0	13,0	10,0
N100K630-15	100	630	400	6,0	12,5	18,0	15,0
N220K400-15	220	400	200	6,0	12,5	18,0	15,0
N220K630-15	220	630	400	8,0	15,0	18,0	15,0
N330K400-15	330	400	200	8,0	15,0	18,0	15,0
N470K400-22	470	400	200	6,0	15,0	26,5	22,5
N470K630-22	470	630	400	10,5	19,0	26,5	22,5
N680K400-22	680	400	200	7,0	16,5	26,5	22,5
U1.0K400-22	1,0	400	200	10,5	19,0	26,5	22,5
U1.0K630-27	1,0	630	400	11,0	21,0	31,5	27,5
U1.5K400-27	1,5	400	200	11,0	21,0	31,5	27,5
U2.2K400-27	2,2	400	200	11,0	21,0	31,5	27,5

C_N = Rated Capacitance, U_N = Rated Voltage DC, U_{eff} = RMS Voltage

C _N	F _{400V}	F _{630V}
	[V/μs]	[V/μs]
10n...22nF:	38/380	40/400
33n...68nF:	25/250	32/320
100n...220nF:	15/150	17/170
330n...680nF	10/100	13/130
1,0μ...2,2μF	9/90	13/130

F_{400V} = Pulse Rise Time for 400V, F_{630V} = Pulse Rise Time for 630V

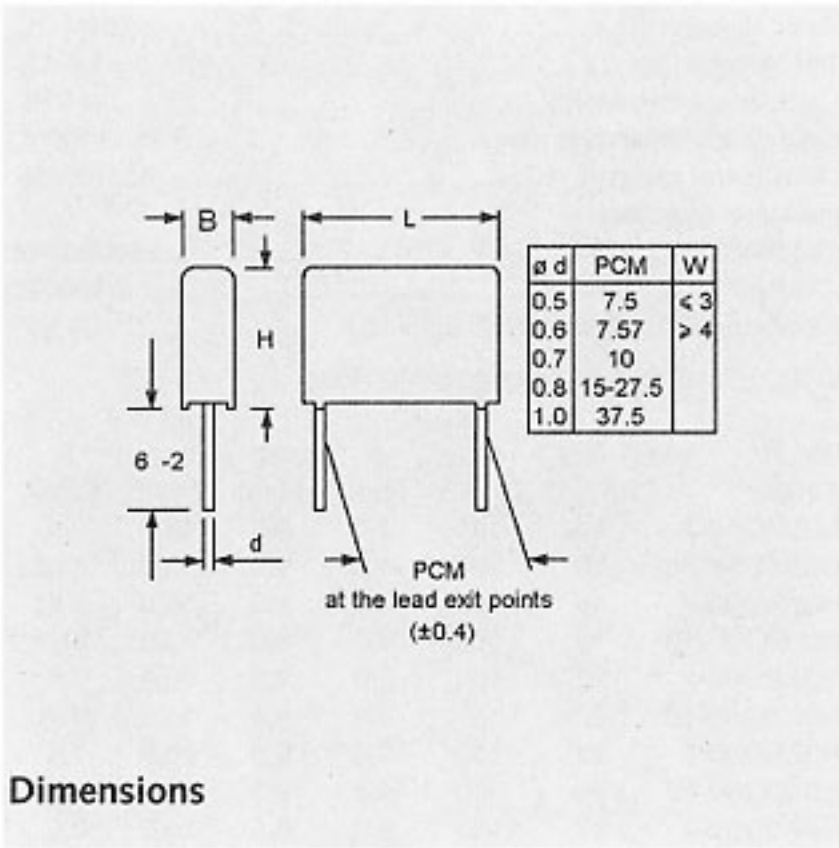
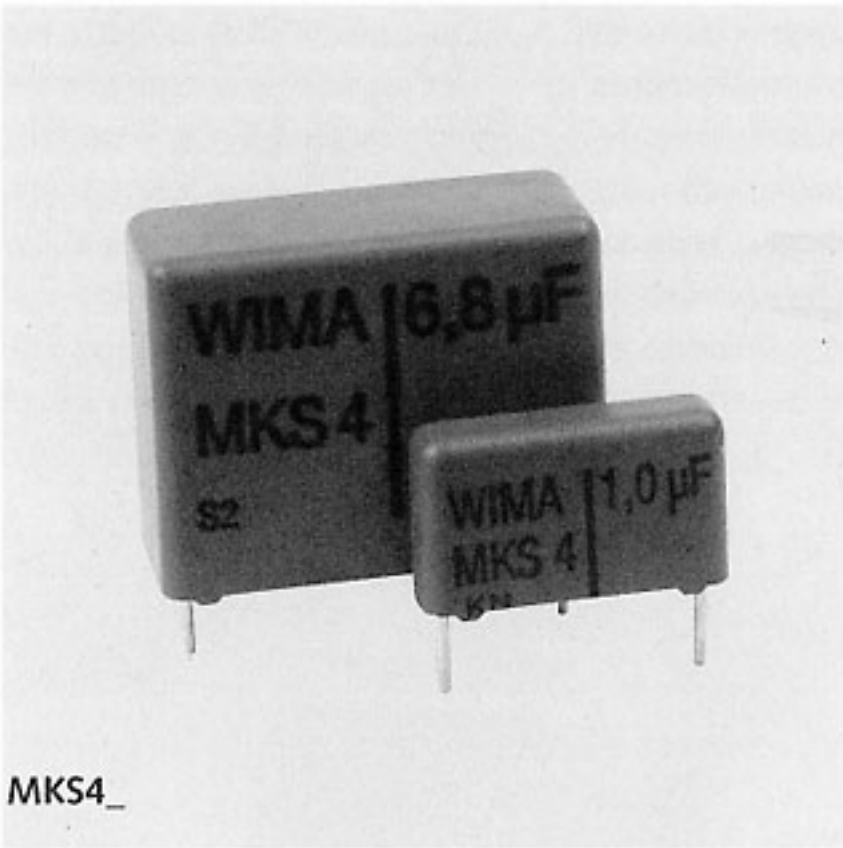
Dissipation Factor Tanδ (20°C)			
	Measured at		
	1kHz	10kHz	100kHz
C≤100nF	≤8x10 ⁻³	≤15x10 ⁻³	≤30x10 ⁻³
100nF<C<1μF	≤8x10 ⁻³	≤15x10 ⁻³	-
C>1μF	≤10x10 ⁻³	-	-

Labelling
Marking: colour red, marking black
Epoxy resin seal: colour red

Terms of Delivery
Minimum order quantity: 1 PKU = 100 pieces
470nF...2,2μF: 1 PKU = 10 pieces

Manufacturer: 
<http://www.wima.de>

Part Nr.	Part description
MKS4N010K630-7	MKT Capacitor 10nF 630V 10% P7,5
MKS4N015K630-7	MKT Capacitor 15nF 630V 10% P7,5
MKS4N022K630-7	MKT Capacitor 22nF 630V 10% P7,5
MKS4N047K630-7	MKT Capacitor 47nF 630V 10% P7,5
MKS4N100K400-10	MKT Capacitor 100nF 400V 10% P10
MKS4N100K630-15	MKT Capacitor 100nF 630V 10% P15
MKS4N220K400-15	MKT Capacitor 220nF 400V 10% P15
MKS4N220K630-15	MKT Capacitor 220nF 630V 10% P15
MKS4N330K400-15	MKT Capacitor 330nF 400V 10% P15
MKS4N470K400-22	MKT Capacitor 470nF 400V 10% P22,5
MKS4N470K630-22	MKT Capacitor 470nF 630V 10% P22,5
MKS4N680K400-22	MKT Capacitor 680nF 400V 10% P22,5
MKS4U1.0K400-22	MKT Capacitor 1uF 400V 10% P22,5
MKS4U1.0K630-27	MKT Capacitor 1uF 630V 10% P27,5
MKS4U1.5K400-27	MKT Capacitor 1,5uF 400V 10% P27,5
MKS4U2.2K400-27	MKT Capacitor 2,2uF 400V 10% P27,5



Dimensions