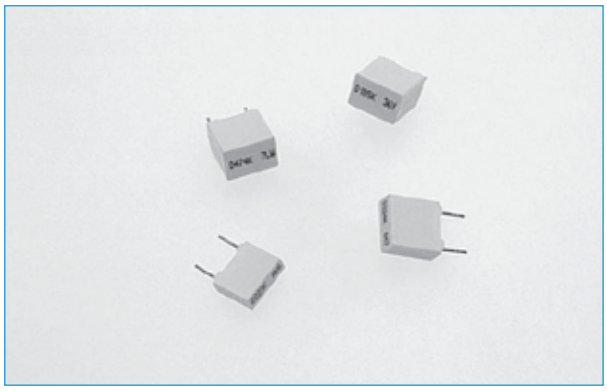
- Miniature sizes
- Self-healing
- Low losses
- Low inductance
- Low series resistance



Designed as a miniature general purpose decoupling capacitor, particularly for high-speed circuits.

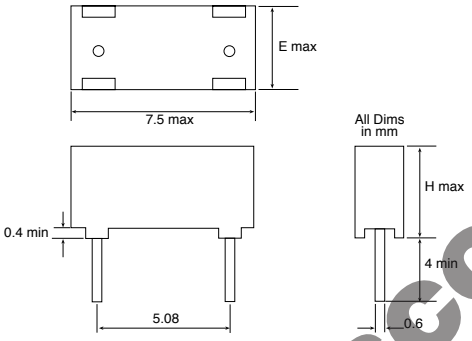
The housing is an insulated thermoplastic moulding incorporating stand-off lugs for easy removal of solder flux.

Flame retardant case and resin in accordance with UL 94VO.

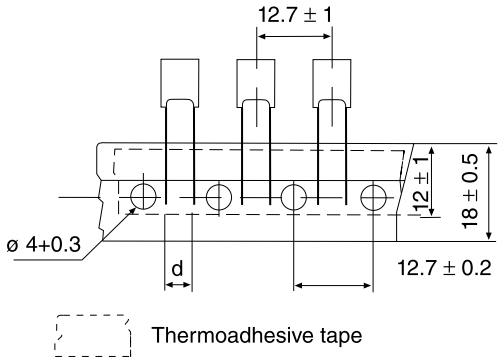
SPECIFICATION

Temperature Range	-55 to +100°C
Capacitance Stability	≤ 5% after 1000 hours @ 85°C
Loss angle	≤ 80 x 10 -4
Rated Voltage	63Vdc, 40Vrms @ 50Hz
Test Voltage	1.4 x Vd.c. for 1 minute

OUTLINE DRAWING

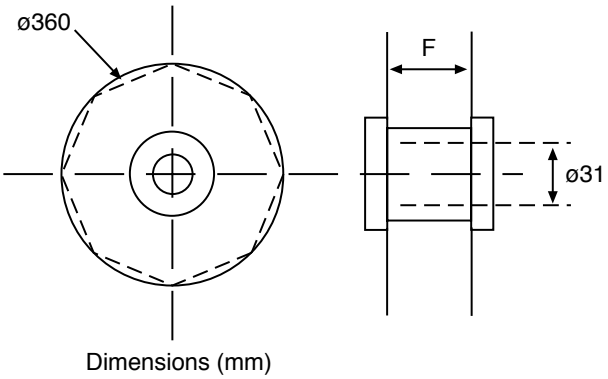


TAPING SPECIFICATIONS



DIMENSIONS (63v)

Value/nf	H max/mm	E max/mm	Reel Qty	F (mm)
1-220	6.5	2.5	2500	43
270-330	8.0	3.2	1800	48
390-1000	8.0	5.0	1200	48
1500-2200	12	6.0	900	48



Dimensions (mm)

MARKING

Nominal capacitance value and tolerance in accordance with IEC 62. C voltage rating 63. The top face of the capacitor is used for marking in order to facilitate easy recognition on high component density boards.

ORDERING INFORMATION

MMP	10	470N	K	TR
Style	10 = 100V 25 = 250V 40 = 400V Blank 63V standard	Value nf	Tolerance J = 5% k = 10%	Options: TA = Tape/Ammo-box TR = Tape/Reel Blank = Loose

CHARACTERISTICS

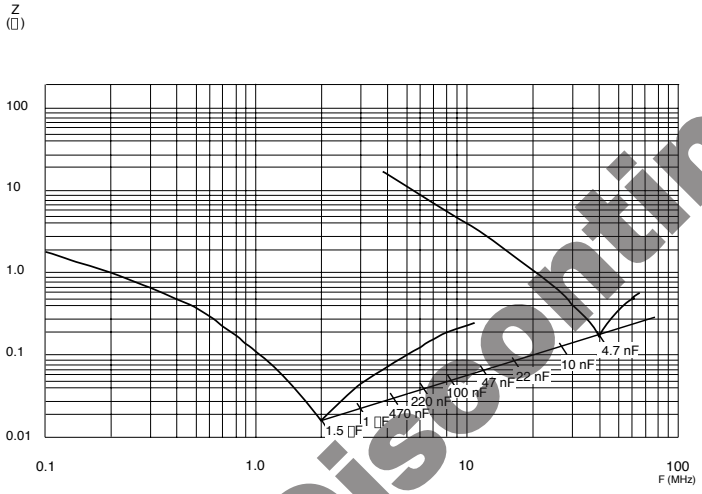
Climatic Category	55/100/56 - Performance class 2
Capacitance Range	CR 1 nF to 2.2 µF (E12)
Tolerances on CR	± 5% ± 10% ± 20% other values on request
Nominal Voltages	VR- 63/100/250/400 V VR~ 40/63/160/200 V
Category Voltage	VC = 0.8 VR- at 100˚C
Test Voltage	VE = 1.6 VR-/2s at 25˚C
Tangent of Loss Angle	tg ∂
Insulation Resistance	Ri

MAX VOLTAGE GRADIENT

VR- (V)	63	100	250	400
(dv/dt)R max	38	40	110	270

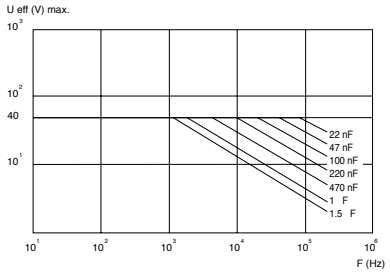
CHARACTERISTICS CURVES

Influence of the frequency on the impedance (room temperature).

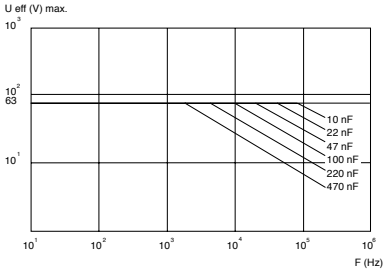


Nominal RMS voltage versus frequency (room temperature) allowing a 10˚C increase of the external temperature of the box.

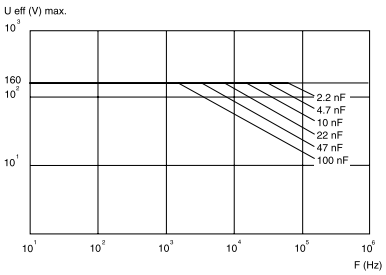
CASES UR- : 63 V



CASES UR- : 100 V



CASES UR- : 250 V



CASES UR- : 400 V