

RF Transmitting Capacitor Doorknob Types

RF Transmitting Capacitors – Doorknob Type

Morgan Matroc is an international manufacturer of advanced ceramic materials and components. Matroc's Unilator Division specialises in the development and production of dielectric and ferroelectric materials and components.

The ceramic materials used in the above range are Type 1 dielectrics, these materials have very low dielectric loss and linear temperature coefficient of capacitance which make them ideally suitable for high power application where minimum capacitance change is required.

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Features

Low dielectric loss resulting in low self heating.
Linear temperature coefficient.
Small size.
High Voltage / High Reactive Power Rating.

Applications Include

Radio Broadcast Transmitters.
Antenna units.
Filter, bypass and coupling circuits in the frequency range 50kHz to 100MHz.

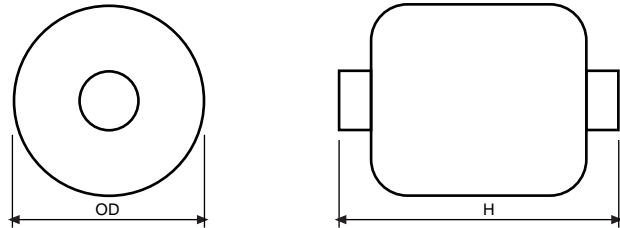
Material Characteristics

EIA Category	NP0 , N750, Z5U, Z5T Available
Tolerance	5%, 10%, 20% (2% consult factory)
Typical Dissipation Factor @ 1kHz 20°C	$1V_{rms} \leq 1 \times 10^{-4}$
Proof Voltage	$1.5 \times U_r / 60secs$
Insulation Resistance @ 1kVdc, 60secs, 20°C	$\geq 10^{11}ohm$
Operating Temperature Range	-55 to +95°C

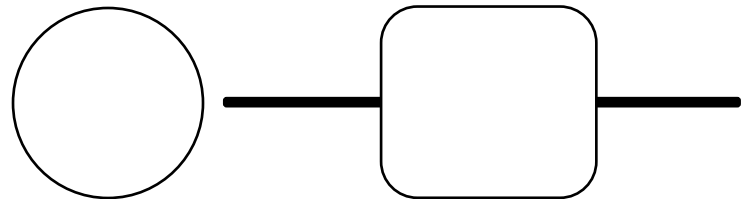
All dimensions in mm

**Visit the RF
Capacitor
Web-Site!
www.rfcaps.com**

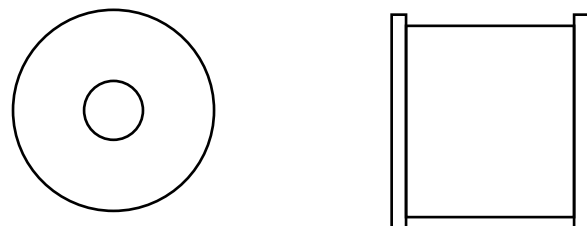
Terminal Style 'A'



Terminal Style 'B'



Terminal Style 'C'



Range

Type Number	Terminal Style	Temp Coeff	Cap Range	Rated Volts kVdc	OD mm	H Max mm	Reactive Power kVAR	Rated Current Arms
61	A 10-32 UNF Thread	NP0	10 - 75	15	31.9	46	50	13
62		N750	75 - 200	15	30.5	46	35	13
63		N3300 N4700	250 - 400 500	15	31.9	46	5.44* 2.15*	3.7* 2.6*
64		Z5T Z5U	750 - 1200 1500	15	30.5	46	0.58* 0.61*	2.1* 2.4*
65	A 6-32 UNF Thread	NP0	5 - 75	7.5	20.83	22.61	25	10
66		N750	40 - 170	7.5	20.83	22.61	20	10
67		N3300 N4700	200 - 400 500 - 700	7.5	20.83	22.61	3.58* 2.78*	3.0* 3.5*
68		Z5T Z5U	800 - 900 1000 - 2500	7.5	20.83	22.61	0.45* 0.21*	1.6* 1.8*
69	B	NP0	7 - 20	5	12.7	11.1	1.54*	0.44*
	C 2-56 UNC	NP0	7 - 20	5	14.3	12.3		
70	B	N750	30 - 45	5	12.7	11.1	3.53*	1.0*
	C 2-56 UNC			5	14.3	12.3		
71	B	NP0	3 - 7	5	7.14	8.73	0.58*	0.16*
	C 2-56 UNC	NP0		5	7.94	9.92		
72	B	N750	8 - 15	5	7.14	8.73	1.15*	0.33*
	C 2-56 UNC	N750		5	7.94	9.92		
73	B	NP0	1 - 14	5	9.52	9.52	1.09*	0.31*
	C 2-56 UNC	NP0		5	11.1	10.7		
74	B	N750	15 - 40	5	9.52	9.52	3.15*	0.89*
	C 2-56 UNC	N750		5	11.1	10.7		

* KVA & Current ratings for max. capacitance in range @ 1MHz

How to order...

441	67	200	0	3	2
Type N°	Type	Capacitance	Capacitance Multiplier	Tolerance	End Code
		First Three significant figures	0 = x1 1 = x10 2 = x100 3 = x1000 8 = /10	4 = -2% 3 = -5% 2 = -10% 1 = -20% 0 = non-standard	2 = UNF / UNC 0 =

Example shown is 200 0 = 200pF

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