

Type X324

DC Filter Capacitor

The X324 Series Film Capacitor is a high-durability capacitor with a compact and reliable design, ideal for electronic lighting, power applications, and voltage spike suppression. It offers a wide capacitance range, making it versatile for various industrial and consumer electronics applications.

Features:

- High reliability and excellent self-healing characteristics
- Low losses and low ESR
- Self-healing property
- Special dimension upon request
- Flame retardant encased
- Low self inductance

Applications:

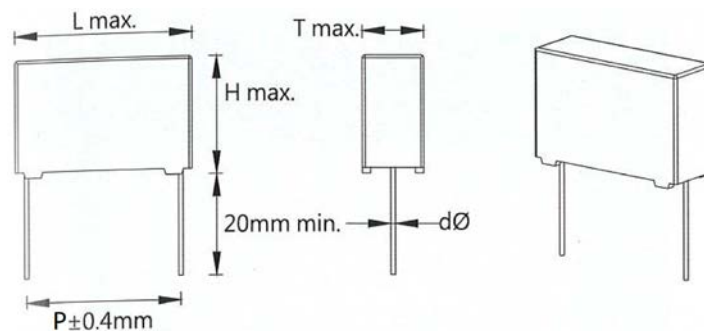
- Electronic Lighting
- Switching Spikes Suppression in SMPS
- Snubber & SCR Commutating Circuits
- Low & Medium Voltage Applications

General Specifications

Parameter	Value
Rated Voltage	250VDC, 400VDC, and 630VDC
Capacitance	0.01 μ F to 2.2 μ F (other rating upon request)
Tolerance	\pm 5% , \pm 10% , \pm 20%
Temperature Range (operational)	-40°C to +105°C Derate DC voltage 1.5% /°C above 85°C to 105°C
Dielectric Strength	160% of rated DC voltage for 2 sec
Construction	Non-inductive wound metallized polypropylene
Insulation Resistance	C < 0.33 μ F, R \geq 30,000 M Ω at 20 \pm 3°C C \geq 0.33 μ F, RC \geq 10,000 M Ω x μ F
Dissipation Factor	0.1% max at 1kHz 20 \pm 3°C

Maximum pulse rise time (dv/dt) V/ μ sec	VDC / Sec	7.5	10	15	22.5	27.5
	250V	15	11	7	4	3
	400V	30	20	10	6	5
	630V	40	30	15	8	7

Outline Drawing



X324

ASC Snubber Capacitor



250VDC					
CAP (MFD)	L	T	H	P (mm)	d (mm)
0.010	10.5	4.0	9.0	7.5	0.6
0.010	13.0	4.0	9.0	10.0	0.8
0.015	10.5	4.0	9.0	7.5	0.6
0.015	13.0	4.0	9.0	10.0	0.8
0.022	13.0	4.0	9.0	10.0	0.8
0.033	13.0	4.0	9.0	10.0	0.8
0.047	13.0	5.0	11.0	10.0	0.8
0.068	13.0	5.0	11.0	10.0	0.8
0.10	13.0	6.0	12.0	10.0	0.8
0.10	18.0	5.0	11.0	15.0	0.8
0.15	18.0	6.0	12.0	15.0	0.8
0.22	18.0	6.0	12.0	15.0	0.8
0.33	26.5	6.0	15.0	22.5	0.8
0.47	26.5	7.0	16.5	22.5	0.8
0.68	26.5	7.0	16.5	22.5	0.8
1.0	26.5	10.0	19.0	22.5	0.8
1.0	32.0	11.0	20.0	27.5	0.8
1.50	32.0	11.0	20.0	27.5	0.8
2.20	32.0	13.0	22.0	27.5	0.8
0.010	10.5	4.0	9.0	7.5	0.6
0.015	10.5	4.0	9.0	7.5	0.6
0.010	13.0	4.0	9.0	10.0	0.6
0.015	13.0	5.0	11.0	10.0	0.6
0.022	13.0	4.0	9.0	10.0	0.6
0.033	13.0	4.0	9.0	10.0	0.6
0.047	13.0	5.0	11.0	10.0	0.6
0.068	13.0	5.0	11.0	10.0	0.6
0.10	13.0	6.0	12.0	10.0	0.6
0.10	18.0	5.0	11.0	15.0	0.8
0.15	18.0	6.0	12.0	15.0	0.8
0.22	18.0	6.0	12.0	15.0	0.8
0.33	26.5	6.0	15.0	22.5	0.8
0.47	26.5	7.0	16.5	22.5	0.8
0.68	26.5	7.0	16.5	22.5	0.8
1.0	26.5	10.0	19.0	22.5	0.8
1.0	32.0	11.0	20.0	27.5	0.8
1.50	32.0	11.0	20.0	27.5	0.8
2.20	32.0	13.0	22.0	27.5	0.8

400VDC					
CAP (MFD)	L	T	H	P (mm)	d (mm)
0.010	13.0	4.0	9.0	10.0	0.6
0.015	13.0	4.0	9.0	10.0	0.6
0.022	13.0	5.0	11.0	10.0	0.6
0.033	13.0	5.0	11.0	10.0	0.6
0.047	13.0	6.0	12.0	10.0	0.6
0.068	18.0	6.0	12.0	15.0	0.8
0.10	18.0	7.5	13.5	15.0	0.8
0.15	18.0	8.5	14.5	15.0	0.8
0.22	26.5	7.0	16.5	22.5	0.8
0.33	26.5	8.5	17.0	22.5	0.8
0.47	26.5	10.0	19.0	22.5	0.8
0.47	32.0	11.0	20.0	27.5	0.8
0.68	32.0	11.0	20.0	27.5	0.8
1.0	32.0	13.0	22.0	27.5	0.8
1.50	32.0	15.0	30.0	27.5	0.8

630VDC					
CAP (MFD)	L	T	H	P (mm)	d (mm)
0.01	13.0	5.0	11.0	10.0	0.8
0.015	13.0	5.0	11.0	10.0	0.8
0.022	13.0	6.0	12.0	10.0	0.8
0.033	18.0	6.0	12.0	15.0	0.8
0.047	18.0	7.5	13.5	15.0	0.8
0.068	18.0	8.5	14.5	15.0	0.8
0.1	26.5	7.0	16.5	22.5	0.8
0.15	26.5	8.5	17.0	22.5	0.8
0.22	26.5	10.0	19.0	22.5	0.8
0.22	32.0	11.0	20.0	27.5	0.8
0.33	32.0	13.0	22.0	27.5	0.8
0.47	32.0	15.0	30.0	27.5	0.8
0.01	13.0	5.0	11.0	10.0	0.6
0.015	13.0	5.0	11.0	10.0	0.6
0.022	13.0	6.0	12.0	10.0	0.6
0.033	18.0	6.0	12.0	15.0	0.8
0.047	18.0	7.5	13.5	15.0	0.8
0.068	18.0	8.5	14.5	15.0	0.8
0.1	26.5	7.5	16.5	22.5	0.8
0.15	26.5	8.5	17.0	22.5	0.8
0.22	26.5	10.0	19.0	22.5	0.8
0.22	32.0	11.0	20.0	27.5	0.8
0.33	32.0	13.0	22.0	27.5	0.8
0.47	32.0	15.0	30.0	27.5	0.8

Ordering Code Information:

Type	Capacitance	Tolerance	Voltage
X324	0.01	5 = ±5%	250
	↕	10 = ±10%	400
	2.2	20 = ±20%	630

Example:	Order Code
Type X324, 0.15uF ±10%, 250 VDC	X324 0.15-10-250