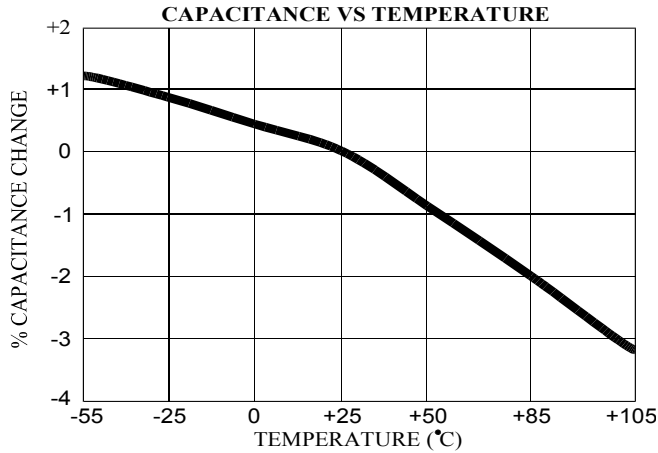


Polypropylene & Foil

Typical Characteristics

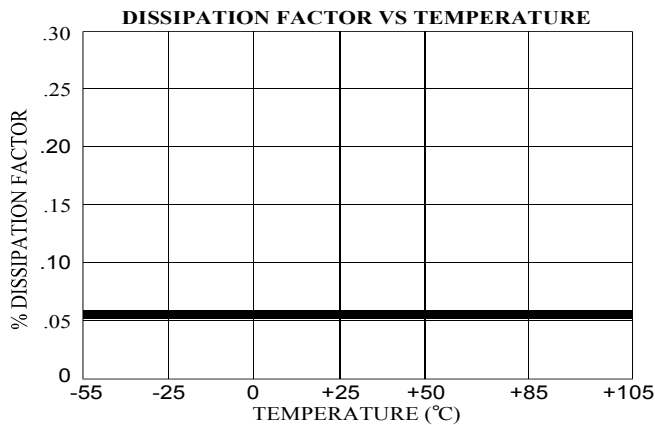


TEMPERATURE:

Rated voltage from -55° C to +85° C;
to +105° C with 50% voltage derating.

DIELECTRIC VOLTAGE TEST:

Will withstand the application of 150% rated DC voltage, at 25° C, for a period of time not to exceed one minute. Current limited to 5 milliamperes.



DISSIPATION FACTOR:

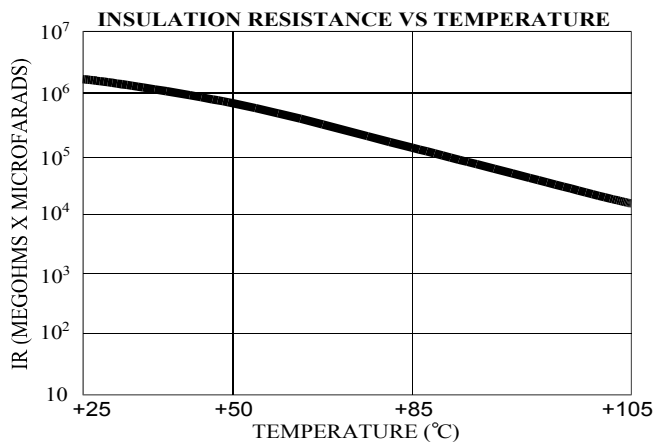
Shall not exceed 0.1% at 25° C.

MEASUREMENT CRITERIA:

Measurement frequency for capacitance and dissipation factor shall be 1000Hz for values under 1mfd; 120Hz for 1mfd and over.

LIFE TEST:

Will withstand the application of 100% rated voltage at +105° C for 250 hrs. with not more than one failure in twelve permitted.



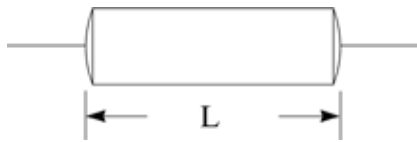
INSULATION RESISTANCE:

When measured at rated voltage or 500VDC, whichever is less, for a time not exceeding two minutes, units shall meet the minimum values below.

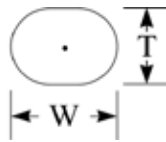
TEMP. (°C)	MEG. X MFDS	MEG. (need not exceed)
+25	100,000	200,000
+85	5,000	10,000
+105	500	1000

F11

POLYPROPYLENE & FOIL



LEAD LENGTH = 1.5" MIN.



Axial Lead

OVAL

Wrap & Fill

Lead Gauge	135VAC / 200VDC	270VAC / 400VDC	660VAC / 1000VDC
24AWG	.001 - .10	.001 - .10	—
22AWG	.15 - .33	.15 - .33	.001 - .0033
20AWG	.47 - 5.0	.47 - 2.0	.0047 - .047
18AWG	—	—	.068 - 5.0

MFD	135 VAC / 200 VDC				270 VAC / 400 VDC				660 VAC / 1000 VDC			
	T +.05	W +.05	L +.05	PART NO.	T +.05	W +.05	L +.05	PART NO.	T +.05	W +.05	L +.05	PART NO.
.0010	.09	.18	.56	F11C102	.14	.24	.75	F11E102	.14	.24	.75	F11G102
.0015	.09	.18	.56	F11C152	.18	.27	.75	F11E152	.18	.28	.75	F11G152
.0022	.09	.18	.56	F11C222	.18	.28	.75	F11E222	.18	.28	.75	F11G222
.0033	.09	.18	.56	F11C332	.18	.28	.75	F11E332	.21	.31	.75	F11G332
.0047	.09	.18	.56	F11C472	.18	.28	.75	F11E472	.23	.33	.75	F11G472
.0068	.11	.20	.56	F11C682	.18	.28	.75	F11E682	.19	.29	1.00	F11G682
.0082	.11	.21	.56	F11C822	.20	.29	.75	F11E822	.26	.36	1.00	F11G822
.010	.13	.22	.56	F11C103	.22	.31	.75	F11E103	.29	.39	1.00	F11G103
.015	.16	.25	.56	F11C153	.29	.38	.75	F11E153	.35	.45	1.00	F11G153
.022	.19	.29	.56	F11C223	.20	.30	1.00	F11E223	.25	.42	1.25	F11G223
.033	.18	.28	.69	F11C333	.26	.36	1.00	F11E333	.32	.49	1.25	F11G333
.047	.22	.31	.69	F11C473	.32	.42	1.00	F11E473	.33	.50	1.50	F11G473
.068	.23	.32	.81	F11C683	.27	.43	1.25	F11E683	.42	.59	1.50	F11G683
.082	.25	.34	.81	F11C823	.30	.46	1.25	F11E823	.47	.63	1.50	F11G823
.10	.28	.37	.81	F11C104	.34	.50	1.25	F11E104	.58	.71	1.50	F11G104
.15	.30	.40	.95	F11C154	.43	.60	1.25	F11E154	.67	.83	1.50	F11G154
.22	.27	.44	1.21	F11C224	.54	.71	1.25	F11E224	.83	.99	1.50	F11G224
.33	.34	.51	1.21	F11C334	.56	.73	1.50	F11E334	1.04	1.20	1.50	F11G334
.47	.41	.58	1.21	F11C474	.54	.70	2.00	F11E474	1.23	1.67	1.50	F11G474
.68	.39	.56	1.72	F11C684	.67	.83	2.00	F11E684	1.18	1.35	2.00	F11G684
.82	.43	.60	1.72	F11C824	.74	.91	2.00	F11E824	1.31	1.48	2.00	F11G824
1.0	.49	.66	1.72	F11C105	.83	.99	2.00	F11E105	1.46	1.63	2.00	F11G105
2.0	.66	.83	1.96	F11C205	1.21	1.37	2.00	F11E205	1.67	1.84	2.75	F11G205
5.0	1.18	1.35	1.96	F11C505					2.70	2.87	2.75	F11G505

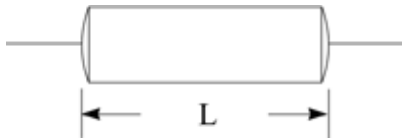
Non Standard Values Available Upon Request

Add letter to the end of the part number to specify the tolerance.

- ±20% = M
- ±10% = K
- ±5% = J
- ±3% = H
- ±2% = G
- ±1% = F

F21

POLYPROPYLENE & FOIL



LEAD LENGTH = 1.5" MIN.



Axial Lead

ROUND

Wrap & Fill

Lead Gauge	135VAC / 200VDC	270VAC / 400VDC	660VAC / 1000VDC
24AWG	.001 - .10	.001 - .068	—
22AWG	.15 - .33	.082 - .10	.001 - .0015
20AWG	.47 - 5.0	.15 - 2.0	.0022 - .047
18AWG	—	—	.068 - 5.0

MFD	135 VAC / 200 VDC			270 VAC / 400 VDC			660 VAC / 1000 VDC		
	D +.05	L +.05	PART NO.	D +.05	L +.05	PART NO.	D +.05	L +.05	PART NO.
.0010	.15	.56	F21C102	.21	.75	F21E102	.21	.75	F21G102
.0015	.15	.56	F21C152	.24	.75	F21E152	.24	.75	F21G152
.0022	.15	.56	F21C222	.24	.75	F21E222	.27	.75	F21G222
.0033	.15	.56	F21C332	.24	.75	F21E332	.32	.75	F21G332
.0047	.15	.56	F21C472	.24	.75	F21E472	.38	.75	F21G472
.0068	.16	.56	F21C682	.24	.75	F21E682	.28	1.00	F21G682
.0082	.17	.56	F21C822	.26	.75	F21E822	.30	1.00	F21G822
.010	.19	.56	F21C103	.28	.75	F21E103	.33	1.00	F21G103
.015	.22	.56	F21C153	.35	.75	F21E153	.39	1.00	F21G153
.022	.25	.56	F21C223	.26	1.00	F21E223	.39	1.25	F21G223
.033	.24	.69	F21C333	.32	1.00	F21E333	.46	1.25	F21G333
.047	.28	.69	F21C473	.38	1.00	F21E473	.46	1.50	F21G473
.068	.29	.81	F21C683	.38	1.25	F21E683	.55	1.50	F21G683
.082	.31	.81	F21C823	.41	1.25	F21E823	.59	1.50	F21G823
.10	.34	.81	F21C104	.45	1.25	F21E104	.65	1.50	F21G104
.15	.39	.95	F21C154	.54	1.25	F21E154	.79	1.50	F21G154
.22	.37	1.21	F21C224	.65	1.25	F21E224	.94	1.50	F21G224
.33	.44	1.21	F21C334	.67	1.50	F21E334	1.15	1.50	F21G334
.47	.52	1.21	F21C474	.65	2.00	F21E474	1.36	1.50	F21G474
.68	.51	1.72	F21C684	.78	2.00	F21E684	1.31	2.00	F21G684
.82	.56	1.72	F21C824	.85	2.00	F21E824	1.42	2.00	F21G824
1.0	.60	1.72	F21C105	.94	2.00	F21E105	1.58	2.00	F21G105
2.0	.77	1.96	F21C205	1.32	2.00	F21E205	1.79	2.75	F21G205
5.0	1.20	1.96	F21C505				2.81	2.75	F21G505

Non Standard Values Available Upon Request

Add letter to the end of the part number to specify the tolerance.

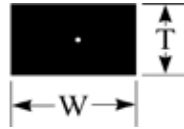
- ±20% = M
- ±10% = K
- ±5% = J
- ±3% = H
- ±2% = G
- ±1% = F

F31

POLYPROPYLENE & FOIL



LEAD LENGTH = 1.5" MIN.



Axial Lead

Plastic Case

Lead Gauge	135VAC / 200VDC	270VAC / 400VDC
24AWG	.001 - .10	.001 - .015
22AWG	.15 - .22	.022 - .22
20AWG	.33 - 1.0	0.33

135 VAC / 200 VDC

270 VAC / 400 VDC

MFD	135 VAC / 200 VDC				270 VAC / 400 VDC			
	T +.01	W +.01	L +.03	PART NO.	T +.01	W +.01	L +.03	PART NO.
.0010	.17	.29	.55	F31C102	.29	.42	.67	F31E102
.0015	.17	.29	.55	F31C152	.29	.42	.67	F31E152
.0022	.17	.29	.55	F31C222	.29	.42	.67	F31E222
.0033	.17	.29	.55	F31C332	.29	.42	.67	F31E332
.0047	.17	.29	.55	F31C472	.29	.42	.67	F31E472
.0068	.17	.29	.55	F31C682	.29	.42	.67	F31E682
.0082	.23	.36	.55	F31C822	.29	.42	.67	F31E822
.010	.23	.36	.55	F31C103	.29	.42	.67	F31E103
.015	.23	.36	.55	F31C153	.29	.42	.67	F31E153
.022	.29	.42	.55	F31C223	.39	.54	1.04	F31E223
.033	.29	.42	.67	F31C333	.39	.54	1.04	F31E333
.047	.29	.42	.67	F31C473	.39	.54	1.04	F31E473
.068	.29	.42	.82	F31C683	.39	.54	1.24	F31E683
.082	.39	.54	.82	F31C823	.39	.54	1.24	F31E823
.10	.39	.54	.82	F31C104	.39	.54	1.24	F31E104
.15	.39	.54	1.04	F31C154	.56	.72	1.24	F31E154
.22	.39	.54	1.24	F31C224	.56	.72	1.24	F31E224
.33	.56	.72	1.24	F31C334	.56	.72	1.50	F31E334
.47	.56	.72	1.24	F31C474				
.68	.56	.72	1.80	F31C684				
.82	.56	.72	1.80	F31C824				
1.0	.56	.72	1.80	F31C105				

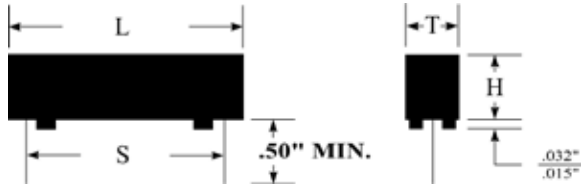
Non Standard Values Available Upon Request

Add letter to the end of the part number to specify the tolerance.

- ±20% = M
- ±10% = K
- ±5% = J
- ±3% = H
- ±2% = G
- ±1% = F

F32

POLYPROPYLENE & FOIL



Radial Lead

Plastic Case

Lead Gauge	135VAC / 200VDC	270VAC / 400VDC
22AWG	.001 - .068	.001 - .015
20AWG	.082 - 1.0	.022 - .33

135 VAC / 200 VDC

270 VAC / 400 VDC

MFD	135 VAC / 200 VDC					270 VAC / 400 VDC				
	T ±.01	H max	L ±.01	S ±.015	PART NO.	T ±.01	H max	L ±.01	S ±.015	PART NO.
.0010	.18	.30	.55	.400	F32C102	.30	.43	.67	.500	F32E102
.0015	.18	.30	.55	.400	F32C152	.30	.43	.67	.500	F32E152
.0022	.18	.30	.55	.400	F32C222	.30	.43	.67	.500	F32E222
.0033	.18	.30	.55	.400	F32C332	.30	.43	.67	.500	F32E332
.0047	.18	.30	.55	.400	F32C472	.30	.43	.67	.500	F32E472
.0068	.18	.30	.55	.400	F32C682	.30	.43	.67	.500	F32E682
.0082	.18	.30	.55	.400	F32C822	.30	.43	.67	.500	F32E822
.010	.18	.30	.55	.400	F32C103	.30	.43	.67	.500	F32E103
.015	.24	.37	.55	.400	F32C153	.30	.43	.67	.500	F32E153
.022	.30	.43	.55	.400	F32C223	.40	.55	1.04	.800	F32E223
.033	.30	.43	.67	.500	F32C333	.40	.55	1.04	.800	F32E333
.047	.30	.43	.67	.500	F32C473	.40	.55	1.04	.800	F32E473
.068	.30	.43	.82	.600	F32C683	.40	.55	1.24	1.100	F32E683
.082	.40	.55	.82	.600	F32C823	.40	.55	1.24	1.100	F32E823
.10	.40	.55	.82	.600	F32C104	.40	.55	1.24	1.100	F32E104
.15	.40	.55	1.04	.800	F32C154	.57	.73	1.24	1.100	F32E154
.22	.40	.55	1.24	1.100	F32C224	.57	.73	1.24	1.100	F32E224
.33	.57	.73	1.24	1.100	F32C334	.57	.73	1.75	1.600	F32E334
.47	.57	.73	1.24	1.100	F32C474					
.68	.57	.73	1.75	1.600	F32C684					
.82	.57	.73	1.75	1.600	F32C824					
1.0	.57	.73	1.75	1.600	F32C105					

Non Standard Values Available Upon Request

Add letter to the end of the part number to specify the tolerance.

- ±20% = M
- ±10% = K
- ±5% = J
- ±3% = H
- ±2% = G
- ±1% = F