CF-PP140

MAIN FEATURES

- Parts with tolerance 10%, 5%
- Up to 140°C
- High Energy density
- Large voltage range

APPLICATIONS

- High Energy
- AC Filtering
- RC circuits

DIELECTRIC

Metallized polypropylene

MARKING

EFD
model
capacitance / tolerance
rated voltage
date-code

TECHNOLOGY

Self-healing,
Low inductance,
Thermoplastic case,
Epoxy resin sealed,
Tinned copper radial leads.

STANDARD QUALIFICATIONS

ISO 9001 · RoHS · EN 9100

MECHANICAL CHARACTERISTICS

Operating Temperature	**–55°C to +140°C**

PACKAGING

Standard package	**Carton Box. No need of dessicant**

STORAGE CONDITIONS

Storage temperature	**–25°C up to +85°C**
Storage life time	**Room condition 2 Years**

ELECTRICAL SPECIFICATION

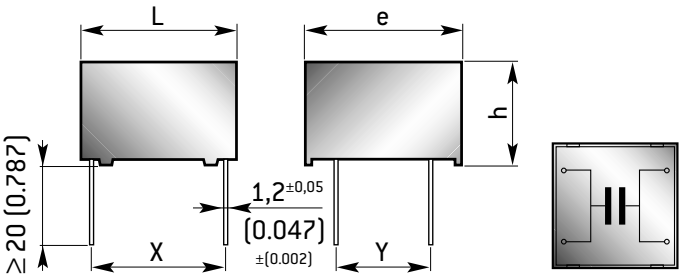
Range of capacitances C_R		**0,80 µF to 210 µF**
Tolerances		**10%, 5%**
Rated voltages U_{RC} at 85° C		**450 V to 1500 V**
Permissible current at 10 kHz up to 105°C		**I_{RA}**
Test voltage (60 s)		**1,5 U_{RC}**
Insulation resistance	$C_R \leq 0{,}33$ µF	**Ri ≥ 100 000 MΩ**
	$C_R > 0{,}33$ µF	**Ri x C_R ≥ 30 000 s**
Dissipation factor (Tgδ) at 1 kHz		**≤ 10.10^{-4}**
Climatic category		**55/125/21**
Withstand voltage between leads and case		**3000 V_{CA} 50 Hz – 1 min**
Life expectancy (85°C, U_{RC})		**30 000 h ΔC/C ≤ 10%**
Measurement and test conditions		**IEC 61071**

HOW TO ORDER

CF-PP140	W	10µF	10%	450V
Series	RoHS compliant	Capacitance	Tolerance	Rated voltage
CF-PP140	**–** = No RoHS **W** = RoHS compliant	Capacitance value in clear	**±10%** **±5%**	**450V** **600V** **800V** **1000V** **1500V** Intermediary and higher voltages available on request

CF-PP140S

DIMENSIONAL DRAWINGS



DIMENSIONS in mm (inches)

Case code	L		h		e		X		Y	
	mm	(inches)	mm	(inches)	mm	(inches)	mm	(inches)	mm	(inches)
A	32	(1.260)	20	(0.787)	11	(0.433)	27,5	(1.083)	5,1	(0.201)
B	32	(1.260)	22	(0.866)	13	(0.512)	27,5	(1.083)	5,1	(0.201)
C	32	(1.260)	24	(0.945)	14	(0.551)	27,5	(1.083)	5,1	(0.201)
D	41,5	(1.634)	29	(1.142)	17	(0.669)	35,5	(1.398)	7,6	(0.299)
E	38	(1.496)	33	(1.299)	18	(0.709)	37,5	(1.476)	7,6	(0.299)
F	45	(1.772)	30	(1.181)	28	(1.102)	40,5	(1.594)	12,7	(0.500)
G	45	(1.772)	38	(1.496)	24	(0.945)	40,5	(1.594)	12,7	(0.500)
H	45	(1.772)	45	(1.772)	30	(1.181)	40,5	(1.594)	12,7	(0.500)
I	54	(2.126)	50	(1.969)	30	(1.181)	49,5	(1.949)	12,7	(0.500)
J	54	(2.126)	50	(1.969)	43	(1.693)	49,5	(1.949)	20,2	(0.795)
K	56	(2.205)	62,5	(2.461)	42	(1.654)	52,5	(2.067)	20,3	(0.799)
	± 0,8	±(0.020)	± 0,8	±(0.020)	± 0,5	±(0.031)	± 0,5	±(0.031)	± 0,5	±(0.031)

Tolerances on dimensions in mm (inches)

CAPACITANCE AND RATED VOLTAGE (D.C.)

Case code	450 V_{CC}			600 V_{CC}			800 V_{CC}		
	C_R (µF)	I_{rms} (A)	dV/dt (V/µs)	C_R (µF)	I_{rms} (A)	dV/dt (V/µs)	C_R (µF)	I_{rms} (A)	dV/dt (V/µs)
A	10	4,3	33	6,8	3,7	42	3,3	2,6	60
B	12	5,2	31	8,5	4,7	42	4,7	3,6	60
C	16	6,9	33	10	5,5	42	5,5	4,3	60
D	40	12,7	24	27	10,7	30	14	7,8	42
E	33	9,8	23	22	8,2	28	12	6,2	40
F	62	16,9	21	42	13,6	25	22	10,3	36
G	72,5	19,8	21	48	16,3	26	25	11,8	36
H	110	30	21	75	23,8	24	38	17,9	36
I	150	32,6	16	100	26,8	20	55	20,3	28
J	210	45,6	16	150	37,6	19	75	27,7	28

CAPACITANCE AND RATED VOLTAGE (D.C.)

Case code	1000 V_{CC}			1200 V_{CC}			1500 V_{CC}		
	C_R (µF)	I_{rms} (A)	dV/dt (V/µs)	C_R (µF)	I_{rms} (A)	dV/dt (V/µs)	C_R (µF)	I_{rms} (A)	dV/dt (V/µs)
A	1,8	1,8	77	1,4	1,7	94	0,8	1,3	125
B	2,7	2,7	77	1,9	2,3	94	1,2	1,9	125
C	3,3	3,3	77	2,2	2,7	94	1,4	2,3	125
D	8	5,7	54	5,6	4,8	66	3,6	4	86
E	6,8	4,5	51	5	4	61	3,2	3,3	80
F	14	8,4	46	9	6,5	55	5,6	5,2	72
G	16	9,6	46	11	7,9	55	7,5	7	72
H	25	14,9	46	17	12,3	55	10	9,4	72
I	35	16,3	36	24	13,5	43	15	10,9	56
J	50	23,3	36	33	18,6	43	20	14,5	56
K				45	24	41			