

NPDC Series

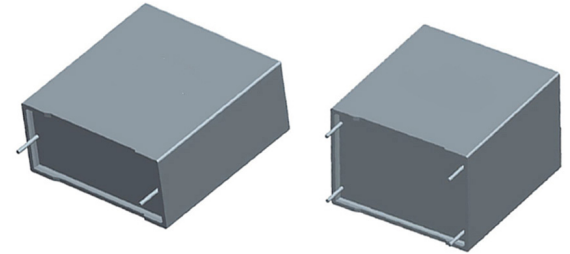
Radial Film Capacitor

DC Link Metalized Polypropylene



FEATURES

- METALIZED POLYPROPYLENE FILM CAPACITORS
- DC-LINK APPLIICATIONS
- LOW & ESR HIGH RMS CURRENT RATING (UP TO 4KA)
- MOLDED BOX CONSTRUCTION
- AEC-Q200 QUALIFIED



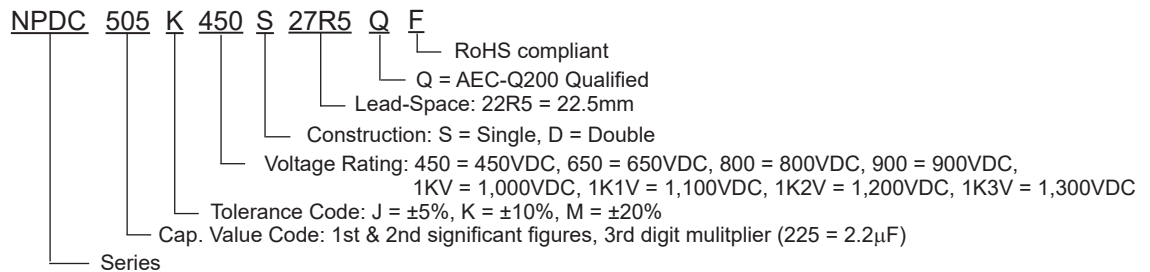
SPECIFICATIONS

Specifications	Voltage Ratings (VDC)									
	+70°C Uop*	500	650	700	800	900	1000	1100	1200	1300
	+85°C Un**	450	550	600	700	800	900	1000	1100	1200
	+105°C Uop*	300	400	440	490	560	630	700	770	840
Capacitance Range (μF)	5.0 ~ 200	5.0 ~ 180	2.0 ~ 140	2.0 ~ 140	2.0 ~ 110	1.0 ~ 85	1.0 ~ 70	1.0 ~ 55	1.0 ~ 45	
Available Capacitance Tolerance	±5% (J), ±10% (K), ±20% (M)									
Operating Temperature Range	-40°C ~ +105°C (derating voltage 1.25%/°C above +85°C)									
Withstanding Voltage @ +25°C	150% of RV for 10 sec. (between terminals) 3,000VAC 50/60Hz for 60 sec. (between terminals and case)									
Dissipation Factor @ 1KHz	≤20μF = ≤0.2%, >20μF = ≤0.3%, >80μF = ≤0.4%									
ESR @ 10KHz	See Part Number and Specifications Tables									
Insulation Resistance @ 100V +25°C ±5°C										
Climatic Category	40/105/56 (IEC 61071)									
Operational Life Expectancy	100,000 hours @ +85°C (≤100FIT @ 85°C)									
UL Flamability Rating	UL94V-0 (Epoxy Resin and Case)									

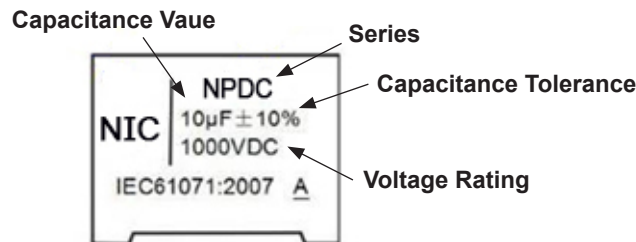
*Uop = Operating Voltage (VDC)

**Un = Rated Voltage (VDC)

PART NUMBER SYSTEM



PART MARKING



NPDC Series

Radial Film Capacitor

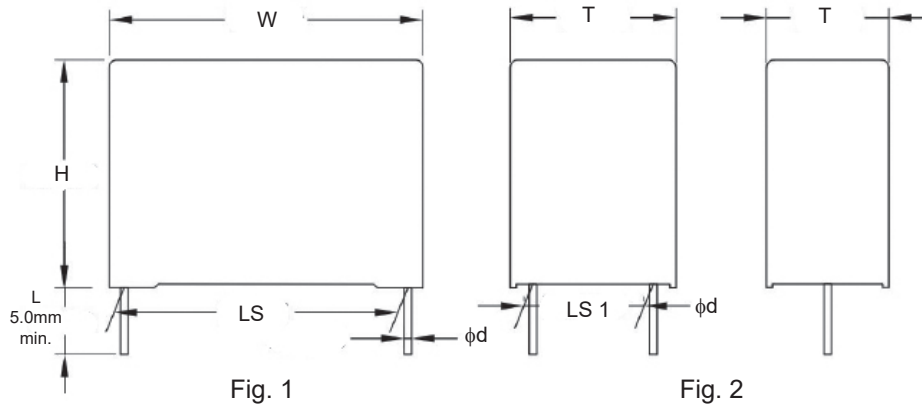
DC Link Metalized Polypropylene



NPDC SERIES (Uop: 500VDC at +70°C, Un: 450VDC at +85°C, Uop: 300VDC at +105°C)

NIC Part Number	Cap. (μF)	Tol. (%)	dv/dt (V/mS) max.	Ipeak (A) max	Isurge (A) max	ESR @ 10KHz (mΩ) max.	ESL (nH)	Irms @ 10KHz/70°C (A) max.	Thermal Res (°C/W)	IR (GΩ)	L ±1.0	H ±1.0	T ±1.0	LS ±0.5	LS 1 ±0.5	φd ±0.05	Fig. #
NPDC505K450S27R5QF	5	10	65	325	975	20.0	25	5.0	30.0	6.00	32.0	20.0	11.0	27.5	N/A	0.8	1
NPDC106K450S27R5QF	10	10	65	650	1950	11.0	25	7.0	27.8	3.00	32.0	25.5	16.0	27.5	N/A	0.8	1
NPDC156K450S27R5QF	15	10	65	975	2925	7.0	25	11.0	17.7	2.00	31.0	33.0	18.0	27.5	N/A	0.8	1
NPDC226K450S27R5QF	22	10	65	1430	4290	5.0	28	11.0	24.8	1.36	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC256K450S27R5QF	25	10	65	1625	4875	4.8	28	12.0	24.8	1.20	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC306K450D37R5QF	30	10	35	1050	3150	7.5	30	12.5	12.8	1.00	42.0	40.0	20.0	37.5	10.2	1.0	2
NPDC356K450D37R5QF	35	10	35	1225	3675	7.0	30	13.5	11.8	0.85	42.5	37.0	22.0	37.5	10.2	1.0	2
NPDC406K450D37R5QF	40	10	35	1400	4200	6.2	30	14.5	11.5	0.75	42.5	37.0	28.0	37.5	10.2	1.0	2
NPDC506K450D37R5QF	50	10	35	1750	5250	5.0	30	16.0	11.7	0.60	41.5	41.0	27.5	37.5	10.2	1.0	2
NPDC506K450D37R5QF	50	10	35	1750	5250	5.0	30	16.0	11.7	0.60	41.5	45.0	30.0	37.5	20.3	1.0	2
NPDC606K450D37R5QF	60	10	35	2100	6300	4.5	30	16.5	12.2	0.50	41.5	45.0	30.0	37.5	20.3	1.0	2
NPDC756K450D52R5QF	75	10	20	1500	4500	5.5	35	16.5	10.0	0.40	57.5	45.0	30.0	52.5	20.3	1.2	2
NPDC806K450D52R5QF	80	10	20	1600	4800	5.0	35	17.0	10.4	0.37	57.5	45.0	30.0	52.5	20.3	1.2	2
NPDC107K450D52R5QF	100	10	20	2000	6000	4.5	35	18.0	10.3	0.30	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC117K450D52R5QF	110	10	20	2200	6600	4.0	35	19.0	10.4	0.27	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC127K450D52R5QF	120	10	20	2400	7200	3.8	35	21.5	10.4	0.25	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC157K450D52R5QF	150	10	20	3000	9000	3.6	35	24.5	10.4	0.20	57.5	65.0	35.0	52.5	20.3	1.2	2
NPDC167K450D52R5QF	160	10	20	3200	9600	3.0	35	28.5	10.4	0.18	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC207K450D52R5QF	200	10	20	4000	12000	2.6	35	33.0	10.4	0.15	58.0	67.0	45.0	52.5	20.3	1.2	2

*Maximum RMS current at 10KHz and +85°C is $\Delta t = \pm 15\%$ capacitance tolerance $\leq \pm 5\%$.



Note: Extended values, tolerances, and enhanced versions are available please contact NIC for more details.

NPDC Series

Radial Film Capacitor

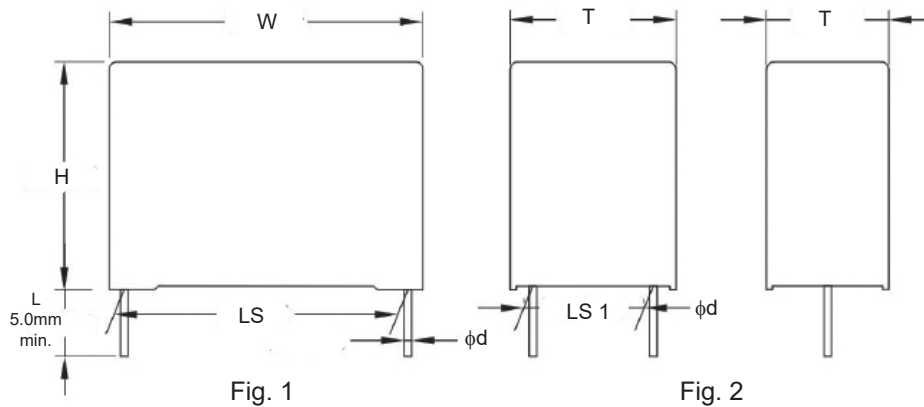
DC Link Metalized Polypropylene



NPDC SERIES (Uop: 650VDC at +70°C, Un: 550VDC at +85°C, Uop: 400VDC at +105°C)

NIC Part Number	Cap. (μ F)	Tol. (%)	dv/dt (V/mS) max.	Ipeak (A) max	Isurge (A) max	ESR @ 10KHz (m Ω) max.	ESL (nH)	Irms @ 10KHz/70°C (A) max.	Thermal Res (°C/W)	IR (G Ω)	L $\pm$ 1.0	H $\pm$ 1.0	T $\pm$ 1.0	LS $\pm$ 0.5	LS 1 $\pm$ 0.5	ϕ d $\pm$ 0.05	Fig. #
NPDC505K550S27R5QF	5	10	65	325	975	19.5	25	5.5	25.4	6.00	31.0	22.0	13.0	27.5	N/A	0.8	1
NPDC106K550S27R5QF	10	10	65	650	1950	10.5	25	7.5	25.4	3.00	31.0	33.0	18.0	27.5	N/A	0.8	1
NPDC156K550S27R5QF	15	10	65	975	2925	6.8	28	11.5	16.7	2.00	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC226K550S27R5QF	22	10	65	1430	4290	4.9	28	11.5	23.1	1.36	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC306K550D37R5QF	30	10	35	1050	3150	7.2	30	13.0	12.3	1.00	42.5	44.0	24.0	37.5	10.2	1.0	2
NPDC356K550D37R5QF	35	10	35	1225	3675	6.8	30	13.8	11.6	0.85	41.5	45.0	30.0	37.5	20.3	1.0	2
NPDC406K550D37R5QF	40	10	35	1400	4200	6.0	30	14.8	11.4	0.75	41.5	45.0	30.0	37.5	20.3	1.0	2
NPDC756K550D52R5QF	75	10	20	1500	4500	5.2	35	16.8	10.2	0.40	57.5	45.0	30.0	52.5	20.3	1.2	2
NPDC107K550D52R5QF	100	10	20	2000	6000	4.3	35	18.5	10.2	0.30	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC117K550D52R5QF	110	10	20	2200	6600	4.0	35	20.0	9.4	0.27	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC147K550D52R5QF	140	10	20	2800	8400	3.5	35	26.0	6.3	0.21	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC177K550D52R5QF	170	10	20	3400	10200	2.8	35	32.0	5.2	0.17	58.0	67.0	45.0	52.5	20.3	1.2	2
NPDC187K550D52R5QF	180	10	20	3600	10800	2.6	35	33.0	5.2	0.16	58.0	67.0	45.0	52.5	20.3	1.2	2

*Maximum RMS current at 10KHz and +85°C is $\Delta t = +15\%$ capacitance tolerance $\leq \pm 5\%$.



Note: Extended values, tolerances, and enhanced versions are available please contact NIC for more details.

NPDC Series

Radial Film Capacitor

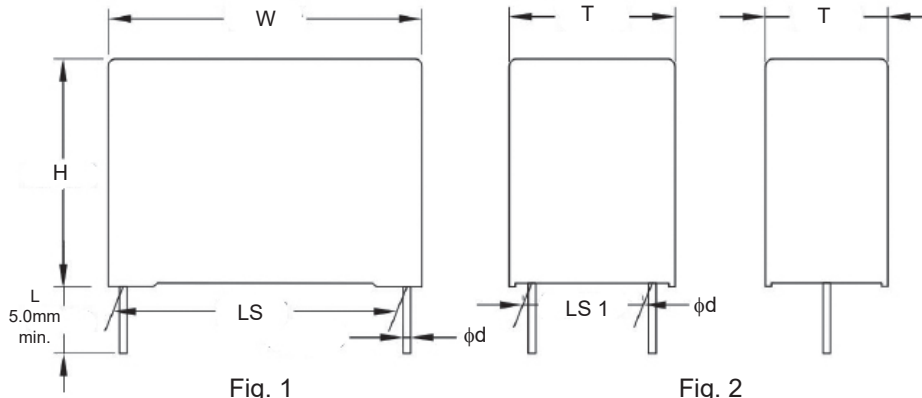
DC Link Metalized Polypropylene



NPDC SERIES (Uop: 700VDC at +70°C, Un: 600VDC at +85°C, Uop: 440VDC at +105°C)

NIC Part Number	Cap. (μF)	Tol. (%)	dv/dt (V/mS) max.	Ipeak (A) max	Isurge (A) max	ESR @ 10KHz (mΩ) max.	ESL (nH)	Irms @ 10KHz/70°C (A) max.	Thermal Res (°C/W)	IR (GΩ)	L ±1.0	H ±1.0	T ±1.0	LS ±0.5	LS 1 ±0.5	φd ±0.05	Fig. #
NPDC205K600S27R5QF	2.0	10	65	130	390	40.0	25	2.9	44.6	15.0	32.0	18.0	9.0	27.5	N/A	0.8	1
NPDC305K600S27R5QF	3.0	10	65	195	585	28.0	25	4.0	33.5	10.0	32.0	20.0	11.0	27.5	N/A	0.8	1
NPDC405K600S27R5QF	4.0	10	65	260	780	23.0	25	5.5	21.6	7.50	32.0	20.0	11.0	27.5	N/A	0.8	1
NPDC505K600S27R5QF	5.0	10	65	325	975	14.5	25	7.0	21.1	6.00	31.0	22.0	13.0	27.5	N/A	0.8	1
NPDC605K600S27R5QF	6.0	10	65	390	1170	13.0	25	7.3	21.7	5.00	31.0	25.0	14.0	27.5	N/A	0.8	1
NPDC705K600S27R5QF	7.0	10	65	455	1365	12.0	25	8.5	17.3	4.28	32.0	25.5	16.0	27.5	N/A	0.8	1
NPDC805K600S27R5QF	8.0	10	65	520	1560	11.0	25	9.5	15.1	3.75	32.0	28.0	14.0	27.5	N/A	0.8	1
NPDC905K600S27R5QF	9.0	10	65	585	1755	10.5	25	10.5	13	3.33	32.0	30.0	15.0	27.5	N/A	0.8	1
NPDC106K600S27R5QF	10	10	65	650	1950	10.0	25	11.0	12.4	3.00	32.0	30.0	15.0	27.5	N/A	0.8	1
NPDC126K600S27R5QF	12	10	65	780	2340	9.5	25	12.0	11	2.50	31.0	33.0	18.0	27.5	N/A	0.8	1
NPDC156K600S27R5QF	15	10	65	975	2925	9.5	28	12.0	11	2.00	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC156K600D27R5QF	15	10	65	975	2925	7.0	28	14.5	10.2	2.00	32.0	37.0	22.0	27.5	10.2	0.8	2
NPDC186K600S27R5QF	18	10	65	1170	3510	9.0	28	12.5	10.7	1.66	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC186K600D27R5QF	18	10	65	1170	3510	6.0	28	16.5	9.2	1.66	32.0	37.0	22.0	27.5	10.2	0.8	2
NPDC106K600S37R5QF	10	10	35	350	1050	18.0	28	7.0	17	3.00	41.5	30.0	17.0	37.5	N/A	1.0	1
NPDC126K600S37R5QF	12	10	35	420	1260	12.0	28	8.0	19.5	2.50	41.5	30.0	17.0	37.5	N/A	1.0	1
NPDC156K600S37R5QF	15	10	35	525	1575	11.0	28	9.5	15.1	2.00	42.0	33.5	18.5	37.5	N/A	1.0	1
NPDC206K600D37R5QF	20	10	35	700	2100	9.0	30	12.5	10.7	1.50	42.0	40.0	20.0	37.5	10.2	1.0	2
NPDC226K600D37R5QF	22	10	35	770	2310	8.0	30	13.5	10.3	1.36	42.0	40.0	20.0	37.5	10.2	1.0	2
NPDC256K600D37R5QF	25	10	35	875	2625	7.0	30	15.5	8.9	1.20	42.0	40.0	20.0	37.5	10.2	1.0	2
NPDC306K600D37R5QF	30	10	35	1050	3150	6.5	30	16.5	8.5	1.00	42.5	44.0	24.0	37.5	10.2	1.0	2
NPDC356K600D37R5QF	35	10	35	1225	3675	6.0	30	18.5	7.3	0.85	41.5	45.0	30.0	37.5	20.3	1.0	2
NPDC406K600D37R5QF	40	10	35	1400	4200	5.0	30	20.5	7.1	0.75	41.5	45.0	30.0	37.5	20.3	1.0	2
NPDC556K600D52R5QF	55	10	20	1100	3300	6.2	35	17.0	8.4	0.54	57.5	45.0	30.0	52.5	20.3	1.2	2
NPDC606K600D52R5QF	60	10	20	1200	3600	6.0	35	18.5	7.3	0.50	57.5	45.0	30.0	52.5	20.3	1.2	2
NPDC656K600D52R5QF	65	10	20	1300	3900	5.5	35	20.0	6.8	0.46	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC706K600D52R5QF	70	10	20	1400	4200	5.0	35	21.5	6.5	0.42	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC756K600D52R5QF	75	10	20	1500	4500	4.5	35	23.5	6.0	0.40	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC806K600D52R5QF	80	10	20	1600	4800	4.2	35	24.5	5.9	0.37	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC906K600D52R5QF	90	10	20	1800	5400	4.0	35	26.0	5.5	0.33	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC107K600D52R5QF	100	10	20	2000	6000	3.4	35	29.0	5.2	0.30	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC117K600D52R5QF	110	10	20	2200	6600	3.0	35	30.0	5.6	0.27	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC127K600D52R5QF	120	10	20	2400	7200	2.8	35	32.0	5.2	0.25	58.0	67.0	45.0	52.5	20.3	1.2	2
NPDC137K600D52R5QF	130	10	20	2600	7800	2.6	35	33.0	5.3	0.23	58.0	67.0	45.0	52.5	20.3	1.2	2

*Maximum RMS current at 10KHz and +85°C is $\Delta t = +15\%$ capacitance tolerance $\pm 5\%$.



Note: Extended values, tolerances, and enhanced versions are available please contact NIC for more details.

Performance Passives By Design

NIC Components Corp.
100 Baylis Road. Melville, NY 11747

Page 4
www.niccomp.com

Last Updated 1/3/2024. Specification subject to change without notice. Please check web site for latest information.

NPDC Series

Radial Film Capacitor

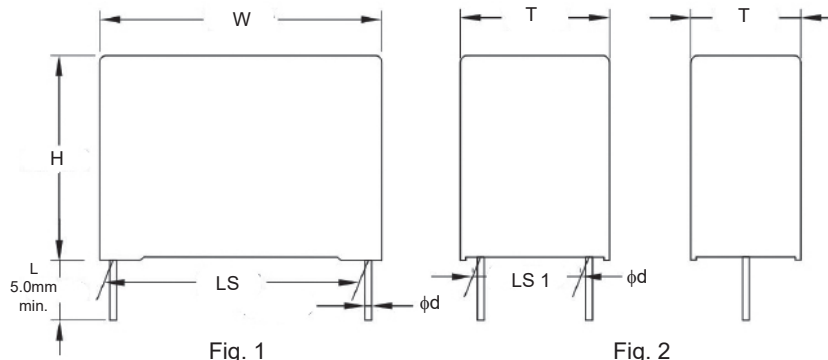
DC Link Metalized Polypropylene



NPDC SERIES (Uop: 800VDC at +70°C, Un: 700VDC at +85°C, Uop: 490VDC at +105°C)

NIC Part Number	Cap. (μF)	Tol. (%)	dv/dt (V/mS) max.	Ipeak (A) max	Isurge (A) max	ESR @ 10KHz (mΩ) max.	ESL (nH)	Irms @ 10KHz/70°C (A) max.	Thermal Res (°C/W)	IR (GΩ)	L ±1.0	H ±1.0	T ±1.0	LS ±0.5	LS 1 ±0.5	φd ±0.05	Fig. #
NPDC205K700S27R5QF	2	10	65	130	390	40.0	25	2.9	44.6	15.0	32.0	18.0	9.0	27.5	N/A	0.8	1
NPDC305K700S27R5QF	3	10	65	195	585	28.0	25	4.0	33.5	10.0	32.0	20.0	11.0	27.5	N/A	0.8	1
NPDC405K700S27R5QF	4	10	65	260	780	23.0	25	5.5	21.6	7.50	32.0	20.0	11.0	27.5	N/A	0.8	1
NPDC505K700S27R5QF	5	10	65	325	975	14.5	25	7.0	21.1	6.00	31.0	22.0	13.0	27.5	N/A	0.8	1
NPDC605K700S27R5QF	6	10	65	390	1170	13.0	25	7.3	21.7	5.00	31.0	25.0	14.0	27.5	N/A	0.8	1
NPDC705K700S27R5QF	7	10	65	455	1365	12.0	25	8.5	17.3	4.28	32.0	25.5	16.0	27.5	N/A	0.8	1
NPDC805K700S27R5QF	8	10	65	520	1560	11.0	25	9.5	15.1	3.75	32.0	28.0	14.0	27.5	N/A	0.8	1
NPDC905K700S27R5QF	9	10	65	585	1755	10.5	25	10.5	13.0	3.33	32.0	30.0	15.0	27.5	N/A	0.8	1
NPDC106K700S27R5QF	10	10	65	650	1950	10.0	25	11.0	12.4	3.00	32.0	30.0	15.0	27.5	N/A	0.8	1
NPDC126K700S27R5QF	12	10	65	780	2340	9.5	25	12.0	11.0	2.50	31.0	33.0	18.0	27.5	N/A	0.8	1
NPDC156K700S27R5QF	15	10	65	975	2925	9.5	28	12.0	11.0	2.00	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC156K700D27R5QF	15	10	65	975	2925	7.0	28	14.5	10.2	2.00	32.0	37.0	22.0	27.5	10.2	0.8	2
NPDC186K700S27R5QF	18	10	65	1170	3510	9.0	28	12.5	10.7	1.66	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC186K700D27R5QF	18	10	65	1170	3510	6.0	28	16.5	9.2	1.66	32.0	37.0	22.0	27.5	10.2	0.8	2
NPDC106K700S37R5QF	10	10	35	350	1050	18.0	28	7.0	17.0	3.00	41.5	30.0	17.0	37.5	N/A	1.0	1
NPDC126K700S37R5QF	12	10	35	420	1260	12.0	28	8.0	19.5	2.50	41.5	30.0	17.0	37.5	N/A	1.0	1
NPDC156K700S37R5QF	15	10	35	525	1575	11.0	28	9.5	15.1	2.00	42.0	33.5	18.5	37.5	N/A	1.0	1
NPDC206K700D37R5QF	20	10	35	700	2100	9.0	30	12.5	10.7	1.50	42.0	40.0	20.0	37.5	10.2	1.0	2
NPDC226K700D37R5QF	22	10	35	770	2310	8.0	30	13.5	10.3	1.36	42.0	40.0	20.0	37.5	10.2	1.0	2
NPDC256K700D37R5QF	25	10	35	875	2625	7.0	30	15.5	8.9	1.20	42.0	40.0	20.0	37.5	10.2	1.0	2
NPDC306K700D37R5QF	30	10	35	1050	3150	6.5	30	16.5	8.5	1.00	42.5	44.0	24.0	37.5	10.2	1.0	2
NPDC356K700D37R5QF	35	10	35	1225	3675	6.0	30	18.5	7.3	0.85	41.5	45.0	30.0	37.5	20.3	1.0	2
NPDC406K700D37R5QF	40	10	35	1400	4200	5.0	30	20.5	7.1	0.75	41.5	45.0	30.0	37.5	20.3	1.0	2
NPDC556K700D52R5QF	55	10	20	1100	3300	6.2	35	17.0	8.4	0.54	57.5	45.0	30.0	52.5	20.3	1.2	2
NPDC606K700D52R5QF	60	10	20	1200	3600	6.0	35	18.5	7.3	0.50	57.5	45.0	30.0	52.5	20.3	1.2	2
NPDC656K700D52R5QF	65	10	20	1300	3900	5.5	35	20.0	6.8	0.46	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC706K700D52R5QF	70	10	20	1400	4200	5.0	35	21.5	6.5	0.42	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC756K700D52R5QF	75	10	20	1500	4500	4.5	35	23.5	6.0	0.40	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC806K700D52R5QF	80	10	20	1600	4800	4.2	35	24.5	5.9	0.37	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC906K700D52R5QF	90	10	20	1800	5400	4.0	35	26.0	5.5	0.33	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC107K700D52R5QF	100	10	20	2000	6000	3.4	35	29.0	5.2	0.30	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC117K700D52R5QF	110	10	20	2200	6600	3.0	35	30.0	5.6	0.27	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC127K700D52R5QF	120	10	20	2400	7200	2.8	35	32.0	5.2	0.25	58.0	67.0	45.0	52.5	20.3	1.2	2
NPDC137K700D52R5QF	130	10	20	2600	7800	2.6	35	33.0	5.3	0.23	58.0	67.0	45.0	52.5	20.3	1.2	2
NPDC147K700D52R5QF	140	10	20	2800	8400	2.5	35	34.0	5.2	0.21	58.0	67.0	45.0	52.5	20.3	1.2	2

*Maximum RMS current at 10KHz and +85°C is $\Delta t = +15\%$ capacitance tolerance $\leq \pm 5\%$.



Note: Extended values, tolerances, and enhanced versions are available please contact NIC for more details.

Performance Passives By Design

NIC Components Corp.
100 Baylis Road. Melville, NY 11747

Page 5
www.niccomp.com

Last Updated 1/3/2024. Specification subject to change without notice. Please check web site for latest information.

NPDC Series

Radial Film Capacitor

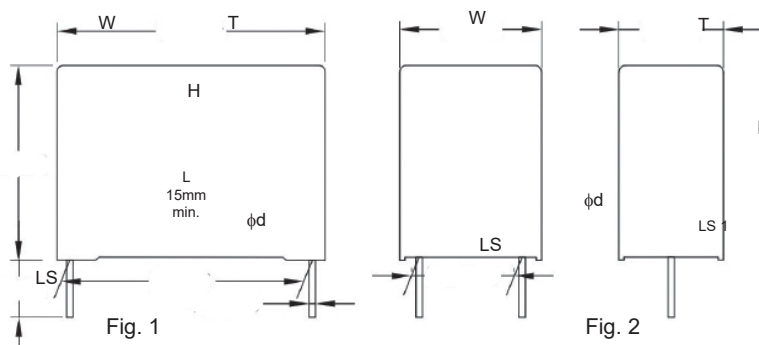
DC Link Metalized Polypropylene



NPDC SERIES (Uop: 1000VDC at +70°C, Un: 900VDC at +85°C, Uop: 630VDC at +105°C)

NIC Part Number	Cap. (μF)	Tol. (%)	dv/dt (V/mS) max.	Ipeak (A) max	Isurge (A) max	ESR @ 10KHz (mΩ) max.	ESL (nH)	Irms @ 10KHz/70°C (A) max.	Thermal Res (°C/W)	IR (GΩ)	L ±1.0	H ±1.0	T ±1.0	LS ±0.5	LS 1 ±0.5	φd ±0.05	Fig. #
NPDC105K900S27R5QF	1	10	70	70	210	65.0	25	2.0	57.7	30.0	32.0	18.0	9.0	27.5	N/A	0.8	1
NPDC205K900S27R5QF	2	10	70	140	420	38.0	25	3.2	38.5	15.0	32.0	20.0	11.0	27.5	N/A	0.8	1
NPDC305K900S27R5QF	3	10	70	210	630	30.0	25	4.8	21.7	10.0	31.0	22.0	13.0	27.5	N/A	0.8	1
NPDC405K900S27R5QF	4	10	70	280	840	20.5	25	6.0	20.3	7.50	31.0	25.0	14.0	27.5	N/A	0.8	1
NPDC505K900S27R5QF	5	10	70	350	1050	12.0	25	7.5	22.2	6.00	32.0	30.0	15.0	27.5	N/A	0.8	1
NPDC605K900S27R5QF	6	10	70	420	1260	11.5	25	7.8	21.4	5.00	31.0	33.0	18.0	27.5	N/A	0.8	1
NPDC705K900S27R5QF	7	10	70	490	1470	10.2	25	10.5	13.3	4.28	31.0	33.0	18.0	27.5	N/A	0.8	1
NPDC705K900S27R5QF	7	10	70	560	1680	9.5	25	11.5	11.9	4.28	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC805K900D27R5QF	8	10	70	560	1680	9.0	25	12.5	10.7	3.75	32.0	37.0	22.0	27.5	10.2	0.8	2
NPDC905K900S27R5QF	9	10	70	630	1890	9.7	25	11.8	11.1	3.33	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC905K900D27R5QF	9	10	70	630	1890	7.8	25	14.0	9.8	3.33	32.0	37.0	22.0	27.5	10.2	0.8	2
NPDC106K900S27R5QF	10	10	70	700	2100	9.5	25	12.0	11.0	3.00	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC106K900D27R5QF	10	10	70	700	2100	7.2	25	15.5	8.7	3.00	32.0	37.0	22.0	27.5	10.2	0.8	2
NPDC505K900S37R5QF	5	10	35	175	525	28.0	28	3.8	37.1	6.00	41.5	30.0	17.0	37.5	N/A	1.0	1
NPDC605K900S37R5QF	6	10	35	210	630	25.0	28	4.5	29.6	5.00	41.5	30.0	17.0	37.5	N/A	1.0	1
NPDC705K900S37R5QF	7	10	35	245	735	22.0	28	5.0	27.3	4.28	41.5	30.0	17.0	37.5	N/A	1.0	1
NPDC805K900S37R5QF	8	10	35	280	840	19.5	28	6.0	21.4	3.75	42.0	33.5	18.5	37.5	N/A	1.0	1
NPDC106K900D37R5QF	10	10	35	350	1050	13.0	30	7.5	20.5	3.00	42.0	40.0	20.0	37.5	10.2	1.0	2
NPDC126K900D37R5QF	12	10	35	420	1260	11.5	30	9.0	16.1	2.50	42.5	37.0	22.0	37.5	10.2	1.0	2
NPDC156K900D37R5QF	15	10	35	525	1575	10.5	30	10.5	13.0	2.00	42.5	44.0	24.0	37.5	10.2	1.0	2
NPDC186K900D37R5QF	18	10	35	630	1890	8.8	30	13.0	10.1	1.66	42.5	44.0	24.0	37.5	10.2	1.0	2
NPDC206K900D37R5QF	20	10	35	700	2100	7.5	30	14.5	9.5	1.50	42.5	44.0	24.0	37.5	10.2	1.0	2
NPDC256K900D37R5QF	25	10	35	875	2625	6.2	30	17.5	7.9	1.20	41.5	45.0	30.0	37.5	20.3	1.0	2
NPDC306K900D52R5QF	30	10	20	600	1800	10.0	35	11.0	12.4	1.00	57.5	45.0	30.0	52.5	20.3	1.2	2
NPDC356K900D52R5QF	35	10	20	700	2100	9.0	35	12.5	10.7	0.85	57.5	45.0	30.0	52.5	20.3	1.2	2
NPDC406K900D52R5QF	40	10	20	800	2400	7.5	35	14.5	9.5	0.75	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC456K900D52R5QF	45	10	20	900	2700	6.8	35	16.0	8.6	0.66	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC506K900D52R5QF	50	10	20	1000	3000	6.4	35	18.0	7.2	0.60	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC556K900D52R5QF	55	10	20	1100	3300	5.6	35	20.0	6.7	0.54	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC606K900D52R5QF	60	10	20	1200	3600	4.8	35	21.5	6.8	0.50	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC656K900D52R5QF	65	10	20	1300	3900	4.5	35	23.0	6.3	0.46	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC706K900D52R5QF	70	10	20	1400	4200	4.0	35	25.0	6.0	0.42	58.0	67.0	45.0	52.5	20.3	1.2	2
NPDC756K900D52R5QF	75	10	20	1500	4500	3.9	35	25.5	5.9	0.40	58.0	67.0	45.0	52.5	20.3	1.2	2
NPDC806K900D52R5QF	80	10	20	1600	4800	3.8	35	26.5	5.6	0.37	58.0	67.0	45.0	52.5	20.3	1.2	2
NPDC856K900D52R5QF	85	10	20	1700	5100	3.6	35	28.5	5.1	0.35	58.0	67.0	45.0	52.5	20.3	1.2	2

*Maximum RMS current at 10KHz and +85°C is Δt=+15% capacitance tolerance ≤ ±5%.



Note: Extended values, tolerances, and enhanced versions are available please contact NIC for more details.

Performance Passives By Design

NIC Components Corp.
100 Baylis Road. Melville, NY 11747

Page 6
www.niccomp.com

Last Updated 1/3/2024. Specification subject to change without notice. Please check web site for latest information.

NPDC Series

Radial Film Capacitor

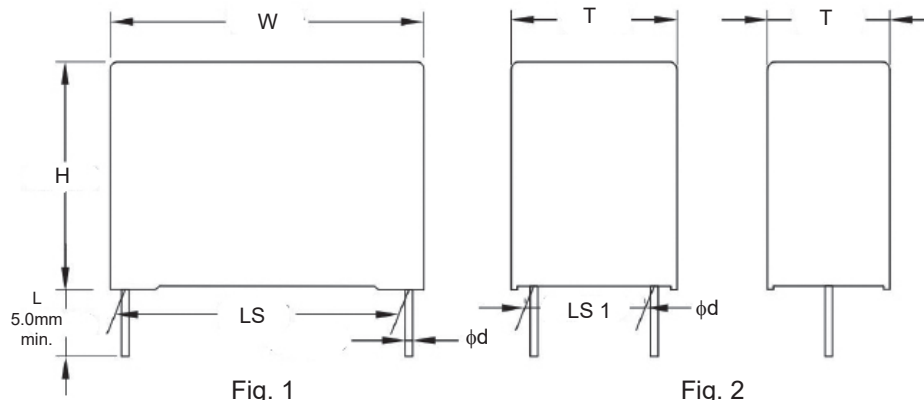
DC Link Metalized Polypropylene



NPDC SERIES (Uop: 1100VDC at +70°C, Un: 1000VDC at +85°C, Uop: 700VDC at +105°C)

NIC Part Number	Cap. (μ F)	Tol. (%)	dv/dt (V/mS) max.	Ipeak (A) max	Isurge (A) max	ESR @ 10KHz (m Ω) max.	ESL (nH)	Irms @ 10KHz/70°C (A) max.	Thermal Res (°C/W)	IR (G Ω)	L $\pm$ 1.0	H $\pm$ 1.0	T $\pm$ 1.0	LS $\pm$ 0.5	LS 1 $\pm$ 0.5	ϕ d $\pm$ 0.05	Fig. #
NPDC105K1000S27R5QF	1	10	75	75	225	65.0	25	2.0	57.7	30.0	32.0	18.0	9.0	27.5	N/A	0.8	1
NPDC205K1000S27R5QF	2	10	75	150	450	38.0	25	3.5	32.2	15.0	31.0	22.0	13.0	27.5	N/A	0.8	1
NPDC305K1000S27R5QF	3	10	75	225	675	22.0	25	5.0	27.3	10.0	31.0	25.0	14.0	27.5	N/A	0.8	1
NPDC405K1000S27R5QF	4	10	75	300	900	16.5	25	7.0	18.6	7.50	32.0	30.0	15.0	27.5	N/A	0.8	1
NPDC505K1000S27R5QF	5	10	75	375	1125	12.5	25	8.5	16.6	6.00	31.0	33.0	18.0	27.5	N/A	0.8	1
NPDC605K1000S27R5QF	6	10	75	450	1350	11.5	25	9.0	16.1	5.00	31.0	33.0	18.0	27.5	N/A	0.8	1
NPDC705K1000S27R5QF	7	10	75	525	1575	11.0	25	9.5	15.1	4.28	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC705K1000D27R5QF	7	10	75	525	1575	9.8	25	11.5	11.6	4.28	32.0	37.0	22.0	27.5	10.2	0.8	2
NPDC805K1000S27R5QF	8	10	75	600	1800	10.5	25	10.5	13	3.75	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC805K1000D27R5QF	8	10	75	600	1800	8.8	25	13.0	10.1	3.75	32.0	37.0	22.0	27.5	10.2	0.8	2
NPDC505K1000S37R5QF	5	10	35	175	525	28.0	28	3.8	37.1	6.00	41.5	30.0	17.0	37.5	N/A	1.0	1
NPDC605K1000S37R5QF	6	10	35	210	630	25.0	28	4.5	29.6	5.00	41.5	30.0	17.0	37.5	N/A	1.0	1
NPDC705K1000S37R5QF	7	10	35	245	735	22.0	28	5.0	27.3	4.28	41.5	30.0	17.0	37.5	N/A	1.0	1
NPDC805K1000S37R5QF	8	10	35	280	840	19.5	28	6.0	21.4	3.75	42.0	33.5	18.5	37.5	N/A	1.0	1
NPDC106K1000D37R5QF	10	10	35	350	1050	13.0	30	7.5	20.5	3.00	42.0	40.0	20.0	37.5	10.2	1.0	2
NPDC126K1000D37R5QF	12	10	35	420	1260	11.5	30	9.0	16.1	2.50	42.5	37.0	22.0	37.5	10.2	1.0	2
NPDC156K1000D37R5QF	15	10	35	525	1575	10.0	30	11.5	11.3	2.00	42.5	44.0	24.0	37.5	10.2	1.0	2
NPDC186K1000D37R5QF	18	10	35	630	1890	7.8	30	14.0	9.8	1.66	41.5	45.0	30.0	37.5	20.3	1.0	2
NPDC206K1000D37R5QF	20	10	35	700	2100	7.0	30	15.5	8.9	1.50	41.5	45.0	30.0	37.5	20.3	1.0	2
NPDC306K1000D52R5QF	30	10	20	600	1800	9.8	35	11.5	11.6	1.00	57.5	45.0	30.0	52.5	20.3	1.2	2
NPDC356K1000D52R5QF	35	10	20	700	2100	8.0	35	13.5	10.3	0.85	57.5	45.0	30.0	52.5	20.3	1.2	2
NPDC406K1000D52R5QF	40	10	20	800	2400	7.0	35	15.5	8.9	0.75	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC456K1000D52R5QF	45	10	20	900	2700	6.2	35	17.5	7.9	0.66	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC506K1000D52R5QF	50	10	20	1000	3000	5.8	35	19.5	6.8	0.60	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC556K1000D52R5QF	55	10	20	1100	3300	5.0	35	21.0	6.8	0.54	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC606K1000D52R5QF	60	10	20	1200	3600	4.6	35	23.0	6.2	0.50	58.0	67.0	45.0	52.5	20.3	1.2	2
NPDC656K1000D52R5QF	65	10	20	1300	3900	4.2	35	25.0	5.7	0.46	58.0	67.0	45.0	52.5	20.3	1.2	2
NPDC706K1000D52R5QF	70	10	20	1400	4200	3.8	35	27.0	5.4	0.42	58.0	67.0	45.0	52.5	20.3	1.2	2

*Maximum RMS current at 10KHz and +85°C is $\Delta t = +15\%$ capacitance tolerance $\leq \pm 5\%$.



Note: Extended values, tolerances, and enhanced versions are available please contact NIC for more details.

NPDC Series

Radial Film Capacitor

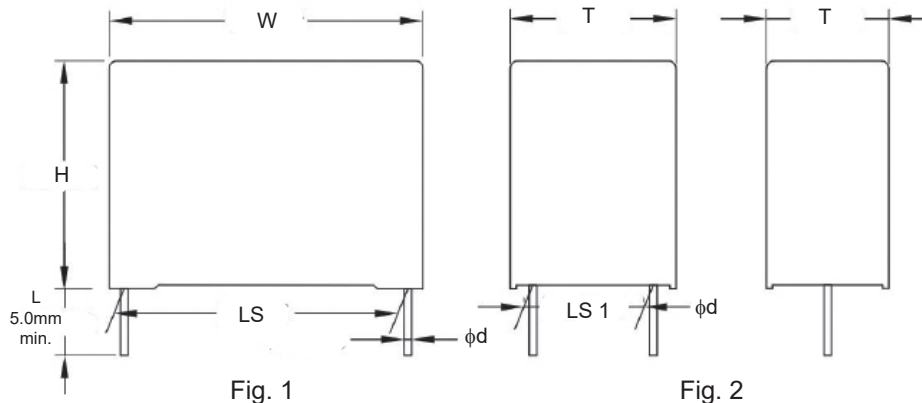
DC Link Metalized Polypropylene



NPDC SERIES (Uop: 1200VDC at +70°C, Un: 1100VDC at +85°C, Uop: 770VDC at +105°C)

NIC Part Number	Cap. (μ F)	Tol. (%)	dv/dt (V/mS) max.	Ipeak (A) max	Isurge (A) max	ESR @ 10KHz (m Ω) max.	ESL (nH)	Irms @ 10KHz/70°C (A) max.	Thermal Res (°C/W)	IR (G Ω)	L $\pm$ 1.0	H $\pm$ 1.0	T $\pm$ 1.0	LS $\pm$ 0.5	LS 1 $\pm$ 0.5	ϕ d $\pm$ 0.05	Fig. #
NPDC105K1100S27R5QF	1	10	80	80	240	65.0	25	2.2	47.7	30.00	32.0	20.0	11.0	27.5	N/A	0.8	1
NPDC155K1100S27R5QF	1.5	10	80	120	360	46.0	25	2.5	52.2	20.00	31.0	22.0	13.0	27.5	N/A	0.8	1
NPDC205K1100S27R5QF	2	10	80	160	480	24.5	25	4.8	26.6	15.00	31.0	25.0	14.0	27.5	N/A	0.8	1
NPDC305K1100S27R5QF	3	10	80	240	720	18.5	25	6.5	19.2	10.00	32.0	30.0	15.0	27.5	N/A	0.8	1
NPDC405K1100S27R5QF	4	10	80	320	960	12.5	25	8.5	16.6	7.50	31.0	33.0	18.0	27.5	N/A	0.8	1
NPDC505K1100S27R5QF	5	10	80	400	1200	10.8	25	9.8	14.5	6.00	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC505K1100D27R5QF	5	10	80	400	1200	10.5	25	10.5	13	6.00	32.0	37.0	22.0	27.5	10.2	0.8	2
NPDC605K1100S27R5QF	6	10	80	480	1440	10.5	25	10.5	13	5.00	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC605K1100D27R5QF	6	10	80	480	1440	8.8	25	13.0	10.1	5.00	32.0	37.0	22.0	27.5	10.2	0.8	2
NPDC305K1100S37R5QF	3	10	40	120	360	46.0	28	2.5	52.2	10.00	41.5	30.0	17.0	37.5	N/A	1.0	1
NPDC405K1100S37R5QF	4	10	40	160	480	32.5	28	3.5	37.7	7.50	41.5	30.0	17.0	37.5	N/A	1.0	1
NPDC475K1100S37R5QF	4.7	10	40	188	564	28.0	28	4.0	33.5	6.38	42.0	33.5	18.5	37.5	N/A	1.0	1
NPDC505K1100S37R5QF	5	10	40	200	600	26.0	28	4.2	32.7	6.00	42.0	33.5	18.5	37.5	N/A	1.0	1
NPDC605K1100S37R5QF	6	10	40	240	720	23.5	28	5.0	25.5	5.00	42.0	33.5	18.5	37.5	N/A	1.0	1
NPDC705K1100D37R5QF	7	10	40	280	840	18.5	30	6.0	22.5	4.28	42.0	40.0	20.0	37.5	10.2	1.0	2
NPDC805K1100D37R5QF	8	10	40	320	960	16.5	30	6.5	21.5	3.75	42.5	37.0	22.0	37.5	10.2	1.0	2
NPDC905K1100D37R5QF	9	10	40	360	1080	13.0	30	7.5	20.5	3.33	42.5	37.0	22.0	37.5	10.2	1.0	2
NPDC106K1100D37R5QF	10	10	40	400	1200	12.0	30	8.5	17.3	3.00	42.5	44.0	24.0	37.5	10.2	1.0	2
NPDC126K1100D37R5QF	12	10	40	480	1440	10.8	30	10.0	13.9	2.50	42.5	44.0	24.0	37.5	10.2	1.0	2
NPDC146K1100D37R5QF	14	10	40	560	1680	9.5	30	12.0	11	2.14	41.5	45.0	30.0	37.5	20.3	1.0	2
NPDC156K1100D37R5QF	15	10	40	600	1800	8.5	30	13.0	10.4	2.00	41.5	45.0	30.0	37.5	20.3	1.0	2
NPDC206K1100D52R5QF	20	10	20	400	1200	11.5	35	9.0	16.1	1.50	57.5	45.0	30.0	52.5	20.3	1.2	2
NPDC256K1100D52R5QF	25	10	20	500	1500	10.0	35	11.0	12.4	1.20	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC306K1100D52R5QF	30	10	20	600	1800	8.6	35	13.0	10.3	1.00	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC356K1100D52R5QF	35	10	20	700	2100	7.5	35	14.5	9.5	0.85	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC406K1100D52R5QF	40	10	20	800	2400	6.8	35	16.0	8.6	0.75	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC456K1100D52R5QF	45	10	20	900	2700	6.2	35	17.5	7.9	0.66	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC506K1100D52R5QF	50	10	20	1000	3000	5.6	35	19.5	7	0.60	58.0	67.0	45.0	52.5	20.3	1.2	2
NPDC566K1100D52R5QF	55	10	20	1100	3300	4.8	35	21.5	6.8	0.54	58.0	67.0	45.0	52.5	20.3	1.2	2

*Maximum RMS current at 10KHz and +85°C is $\Delta t = +15\%$ capacitance tolerance $\leq \pm 5\%$.



Note: Extended values, tolerances, and enhanced versions are available please contact NIC for more details.

NPDC Series

Radial Film Capacitor

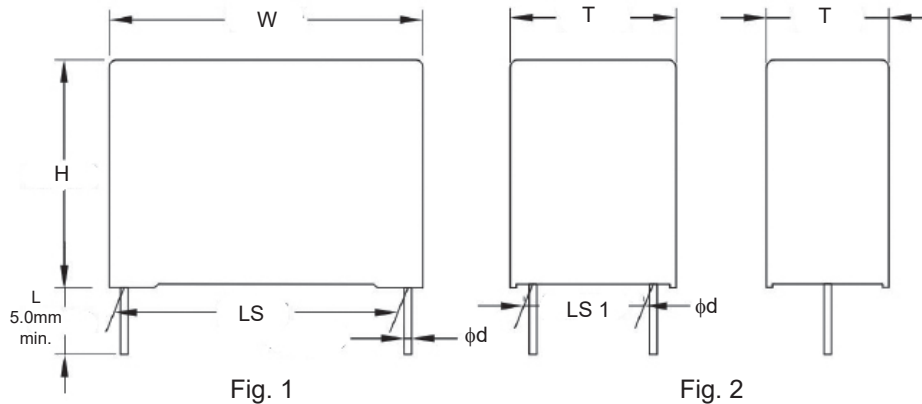
DC Link Metalized Polypropylene



NPDC SERIES (Uop: 1300VDC at +70°C, Un: 1200VDC at +85°C, Uop: 840VDC at +105°C)

NIC Part Number	Cap. (μF)	Tol. (%)	dv/dt (V/mS) max.	Ipeak (A) max	Isurge (A) max	ESR @ 10KHz (mΩ) max.	ESL (nH)	Irms @ 10KHz/70°C (A) max.	Thermal Res (°C/W)	IR (GΩ)	L ±1.0	H ±1.0	T ±1.0	LS ±0.5	LS 1 ±0.5	φd ±0.05	Fig. #
NPDC105K1200S27R5QF	1	10	90	90	270	35.0	25	3.5	35	30.0	32.0	20.0	11.0	27.5	N/A	0.8	1
NPDC205K1200S27R5QF	2	10	90	180	540	24.0	25	5.0	25	15.0	31.0	25.0	14.0	27.5	N/A	0.8	1
NPDC305K1200S27R5QF	3	10	90	270	810	13.0	25	7.5	20.5	10.0	32.0	30.0	15.0	27.5	N/A	0.8	1
NPDC405K1200S27R5QF	4	10	90	360	1080	11.0	25	9.5	15.1	7.50	31.0	33.0	18.0	27.5	N/A	0.8	1
NPDC505K1200S27R5QF	5	10	90	450	1350	10.5	25	10.5	13	6.00	32.0	37.0	22.0	27.5	N/A	0.8	1
NPDC505K1200D27R5QF	5	10	90	450	1350	9.5	25	12.0	11	6.00	32.0	37.0	22.0	27.5	10.2	0.8	2
NPDC305K1200S37R5QF	3	10	45	135	405	35.0	28	3.2	41.9	10.00	41.5	30.0	17.0	37.5	N/A	1.0	1
NPDC405K1200S37R5QF	4	10	45	180	540	28.0	28	4.2	30.4	7.50	41.5	30.0	17.0	37.5	N/A	1.0	1
NPDC505K1200S37R5QF	5	10	45	225	675	21.5	28	5.5	23.1	6.00	42.0	33.5	18.5	37.5	N/A	1.0	1
NPDC605K1200D37R5QF	6	10	45	270	810	16.5	30	6.5	21.5	5.00	42.0	40.0	20.0	37.5	10.2	1.0	2
NPDC705K1200D37R5QF	7	10	45	315	945	13.0	30	7.5	20.5	4.28	42.5	37.0	22.0	37.5	10.2	1.0	2
NPDC805K1200D37R5QF	8	10	45	360	1080	12.0	30	8.5	17.3	3.75	42.5	44.0	24.0	37.5	10.2	1.0	2
NPDC905K1200D37R5QF	9	10	45	405	1215	10.8	30	10.0	13.9	3.33	42.5	44.0	24.0	37.5	10.2	1.0	2
NPDC106K1200D37R5QF	10	10	45	450	1350	10.0	30	11.0	12.4	3.00	42.5	44.0	24.0	37.5	10.2	1.0	2
NPDC126K1200D37R5QF	12	10	45	540	1620	8.5	30	13.0	10.4	2.50	41.5	45.0	30.0	37.5	20.3	1.0	2
NPDC206K1200D52R5QF	20	10	25	500	1500	10.0	35	11.0	12.4	1.50	57.5	45.0	30.0	52.5	20.3	1.2	2
NPDC256K1200D52R5QF	25	10	25	625	1875	8.6	35	13.0	10.3	1.20	57.5	50.0	35.0	52.5	20.3	1.2	2
NPDC306K1200D52R5QF	30	10	25	750	2250	7.5	35	14.5	9.5	1.00	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC356K1200D52R5QF	35	10	25	875	2625	6.8	35	16.0	8.6	0.85	58.0	55.0	45.0	52.5	20.3	1.2	2
NPDC406K1200D52R5QF	40	10	25	1000	3000	5.5	35	20.0	6.8	0.75	58.0	67.0	45.0	52.5	20.3	1.2	2
NPDC456K1200D52R5QF	45	10	25	1125	3375	4.8	35	22.5	6.2	0.66	58.0	67.0	45.0	52.5	20.3	1.2	2

*Maximum RMS current at 10KHz and +85°C is $\Delta t = +15\%$ capacitance tolerance $\leq \pm 5\%$.



Note: Extended values, tolerances, and enhanced versions are available please contact NIC for more details.

NPDC Series

Radial Film Capacitor

DC Link Metalized Polypropylene



ENVIROMENTAL TEST

ITEM	Specification	Test Method
Solderability	More than 95% of circumferential surface of lead wire shall be covered with new solder	Testing Method Per IEC 60068-2-20 Ta Soldering Temperature: +245 ±5°C Immersion Duration: 2 ±0.5 seconds
High Temperature Load Life	Capacitance Change Rate ($\Delta C/C$): ≤±5% DF change ($\Delta \tan \delta$): ≤50*10 ⁻⁴ at 1 KHz. Insulation Resistance: ≥50% of initial limit	Testing method per IEC 61071 Test Temperature: +85 ±2°C. Apply 130% of rated voltage for 1,000 +24/-0 hours. Duration: 500 hours 1000 charges and discharges At 1.3 * I peak (maximum respective peak current in continuous operation)
Acceleration	Capacitance Change Rate ($\Delta C/C$): ≤±2% DF change ($\Delta \tan \delta$): ≤50*10 ⁻⁴ at 1 KHz Insulation Resistance: ≥50% of initial limit	Pulse shape: half sine Acceleration: 490 m/s ² Duration of pulse: 11 ms
Humidity Resistance	Capacitance Change Rate ($\Delta C/C$): ≤±5% DF change ($\Delta \tan \delta$): ≤50*10 ⁻⁴ at 1 KHz. Insulation Resistance: ≥50% of initial limit	Testing method per IEC 60068-2-3 Ca Test Temperature: +40 ±2°C Test Humidity: 90% to 95% R.H. Test Duration: 1344 +24/-0 hours
Cold Resistance	Capacitance Change Rate ($\Delta C/C$): ≤±3% DF change ($\Delta \tan \delta$): ≤50*10 ⁻⁴ at 1 KHz Insulation Resistance: ≥50% of initial limit	Test Temperature: -40 ±2°C Test Duration: 2 +1/-0 hours
Dry Heat Resistance	Capacitance Change Rate ($\Delta C/C$): ≤±3% DF change ($\Delta \tan \delta$): ≤50*10 ⁻⁴ at 1 KHz. Insulation Resistance: ≥50% of initial limit	Test Temperature: +105 ±2°C Test Duration: 16 +1/-0 hours
Rapid Change in Temperature	Capacitance Change Rate ($\Delta C/C$): ≤±5% DF change ($\Delta \tan \delta$): ≤50*10 ⁻⁴ at 1 KHz Insulation Resistance: ≥50% of initial limit	Testing method per IEC 68-2-14 Na. Test Temperature Cycle: Total 5 cycles High Temperature: +105 ±5°C Low Temperature: -40 ±5°C 30 min ±10% for each temperature
Resistance to Soldering Heat	Capacitance Change Rate ($\Delta C/C$): ≤±2% DF change ($\Delta \tan \delta$): ≤50*10 ⁻⁴ at 1 KHz. Insulation Resistance: ≥50% of initial limit	Flow Soldering: Preheat Temperature 100°C~120°C Preheat Duration: 100 seconds Max. Soldering Temperature: +260 ±5°C Immersion Duration: ≤10 seconds Immersion Depth: 1.5 ±0.5 mm from roots. Iron Soldering: Soldering Temperature: +400°C Immersion Duration: ≤3 seconds After test, allow it stay alone for 1.5 ± 0.5 hours at standard temperature and humidity before making measurements.

NPDC Series

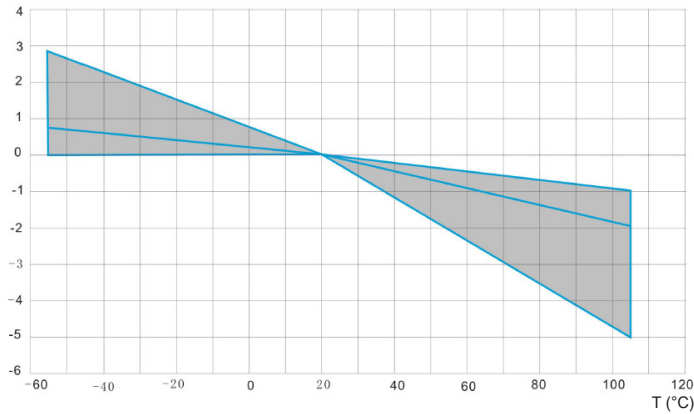
Radial Film Capacitor

DC Link Metalized Polypropylene

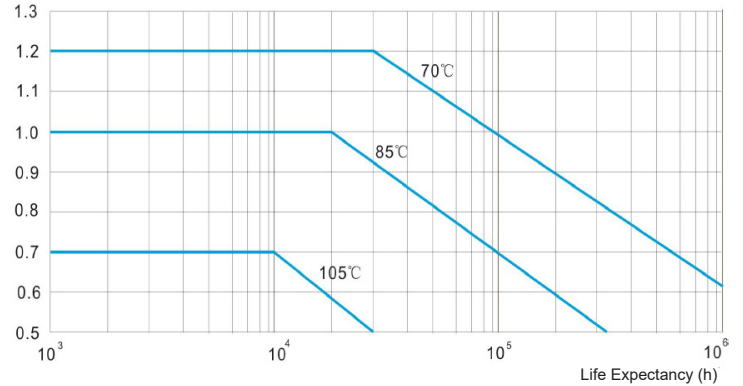


NPDC PERFORMANCE CURVES

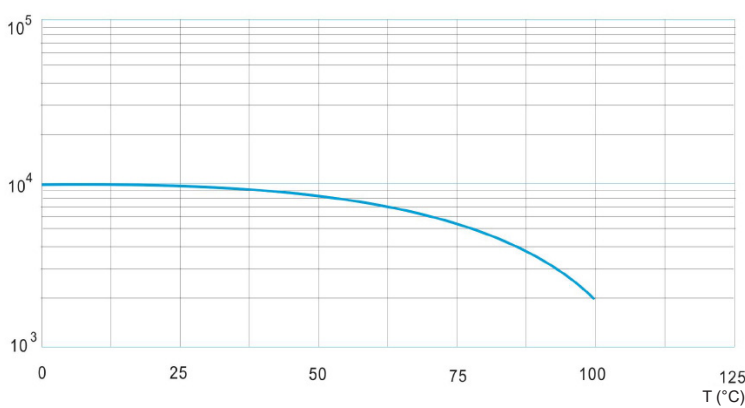
Capacitance Change versus Temperature $\Delta C/C$



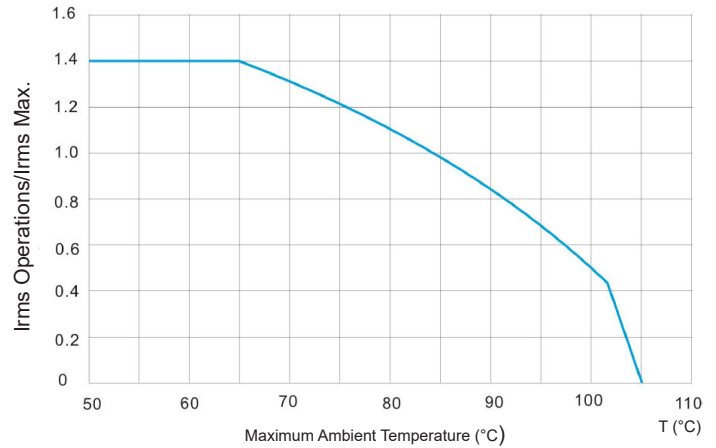
Life Expectancy versus Temperature (Operating VDC/Rated VDC)



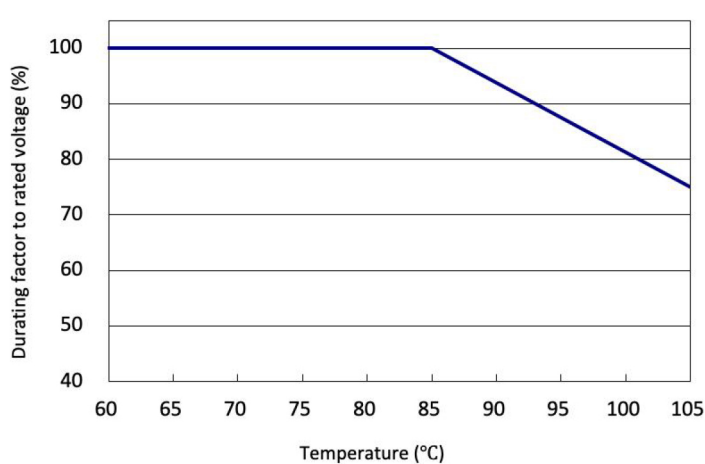
Insulation Resistances $M\Omega \cdot \mu F (s)$



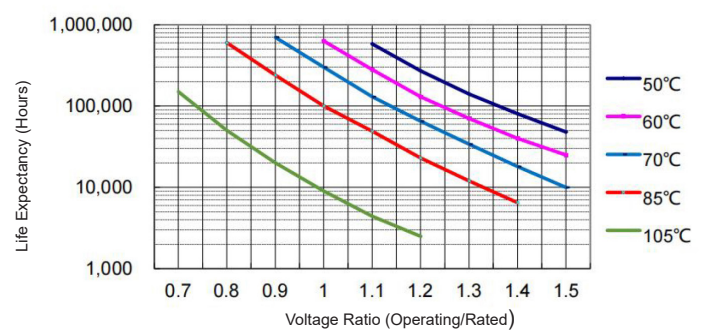
Maximum Irms current versus ambient temperature



Voltage Derating for Temperature



Life Expectancy



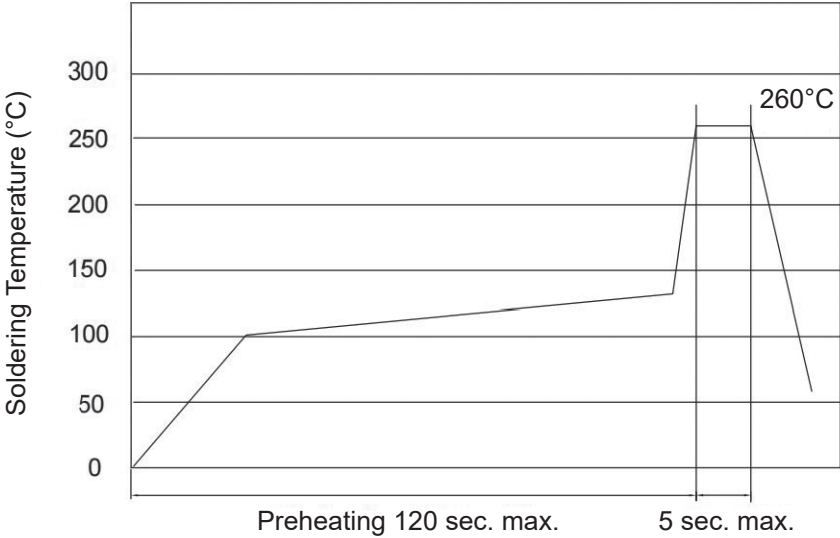
NPDC Series

Radial Film Capacitor

DC Link Metalized Polypropylene



FLOW SOLDERING PROFILE



BULK PACKAGE QUANTITY

Lead Space	Length	Height	Thickness	Quantity per Bag
27.5	32.0	18.0	9.0	340
	32.0	20.0	11.0	280
	31.0	22.0	13.0	230
	31.0	25.0	14.0	230
	32.0	28.0	14.0	220
	32.0	25.5	16.0	200
	32.0	30.0	15.0	190
	31.0	33.0	18.0	170
	32.0	37.0	22.0	140
37.5	42.0	33.5	18.5	112
	42.0	40.0	20.0	105
	42.5	37.0	22.0	98
	42.5	44.0	24.0	91
	42.5	37.0	28.0	77
	41.5	41.0	27.5	77
	41.5	45.0	30.0	70
	41.5	30.0	17.0	126
52.5	57.5	45.0	30.0	50
	57.5	50.0	35.0	45
	57.5	65.0	35.0	45
	58.0	55.0	45.0	35
	58.0	67.0	45.0	35

BOX SIZE (mm)

Inner Box Specifications			
BOX #	L ± 3	W ± 3	H ± 3
# 1	331	331	25
# 2	331	331	35
# 3	331	331	50
# 4	331	331	80
# 5	350	170	35
# 6	350	170	50
# 7	350	170	80

Outer Box Specifications			
BOX #	L ± 5	W ± 5	H ± 5
# 1	350	340	265
# 2	370	360	350