

NPYT Y2 Series

Radial Leaded Y2

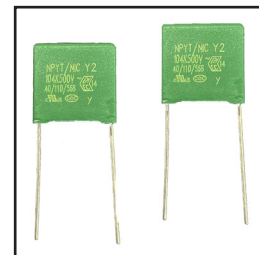
Interference Suppression Capacitors



MOLDED BOX CONSTRUCTION, SUPPRESSION CAPACITOR, RADIAL LEAD

FEATURES

- Molded Radial Leaded Construction
- Self Healing Construction
- Y2 Class Safety Capacitors
- Safety Agency Listed: UL, cUL, ENEC, CQC
- IEC 60068-1 Climatic category 40/110/56



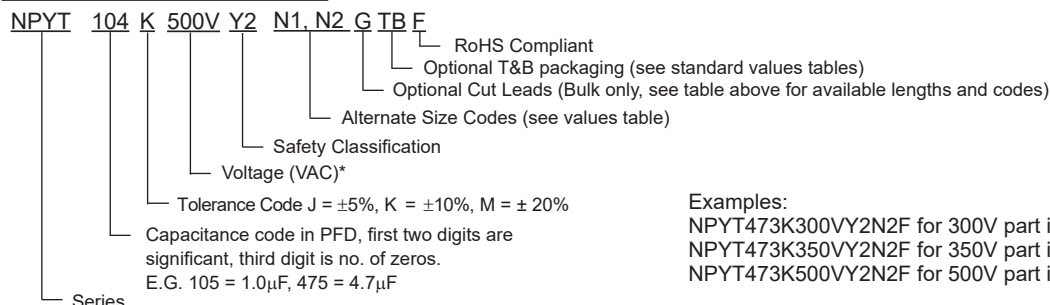
SPECIFICATIONS

Classification	Y2	
Operating Temperature	-40°C ~ +110°C	
Rated Voltage	300/350VAC	500VAC
Continuous Working DC Voltage	1,500VDC	1,500VDC
Capacitance Range	470pF ~ 2.0μF	
Capacitance Tolerance	±5% (J), ±10% (K), ±20% (M)	
Insulation Resistance (min.)	C ≤ 0.33μF > 15,000Megohm 300V ~ 350V 60 sec. @ 100VDC 500V 60 sec. @ 500VDC	
	C > 0.33μF > 5,000Megohm*μF/C 300V ~ 350V 60 sec. @ 100VDC 500V 60 sec. @ 500VDC	
Dissipation Factor	< 0.1% max. @ 1KHz/20°C	
IEC 60068-1 Climatic category (Damp heat, steady state)	40/110/56 Temp. +40°C ± 2°C with relative humidity (RH): 93% ±2% for 56 days	
Dielectric Strength	Between Terminals	≤ 0.33μF: 4,000VDC/ 2 sec. ARC=OFF > 0.33μF: 3,700VDC/ 2 sec. ARC=OFF
	Between Terminals & Enclosure	2,500 VAC for 60 sec. max.

SAFETY AGENCY APPROVALS

Agency	Standard	Certificate Number
UL/cUL	UL60384-14 CSAE60384-14	E209251
ENEC	EN60384-14:2013+A1	SE-ENEC-2002177R1
CQC	IEC60384-14 : 2013 AMD1 : 2016	CQC13001099626

PART NUMBER SYSTEM



Examples:
 NPYT473K300VY2N2F for 300V part in N2 size
 NPYT473K350VY2N2F for 350V part in N2 size
 NPYT473K500VY2N2F for 500V part in N2 size

Parts are available marked with voltage ratings 300/350/500 (same size).

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Y2 DV/DT RATINGS

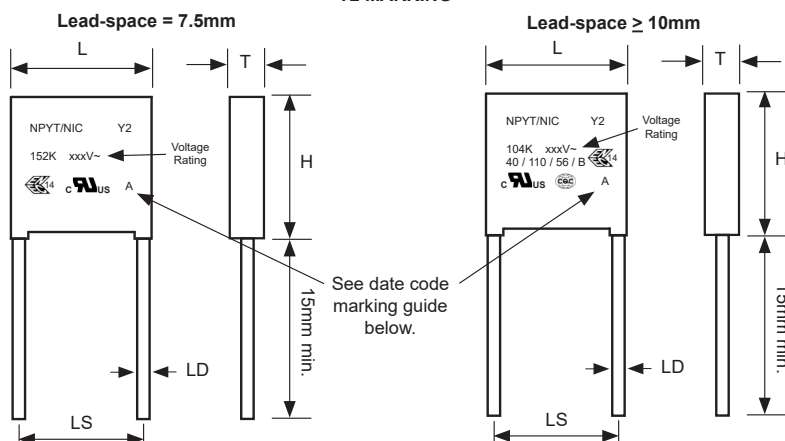
Lead-Space (mm)	7.5	10	15	22.5	27.5	37.5
DV/DT (V/μS)	800	800	600	500	400	300

CUT LEAD CODES (BULK PARTS ONLY)

Lead Length*	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
Code	A	B	C	D	E	G	H	J	K	L	M

* Lead length ± 0.5 mm

Y2 MARKING



DATE CODE MARKING

Year	Month	Code	Year	Month	Code	Year	Month	Code	Year	Month	Code
2024	Jan.	n	2025	Jan.	A	2026	Jan.	N	2027	Jan.	a
	Feb.	p		Feb.	B		Feb.	P		Feb.	b
	Mar.	q		Mar.	C		Mar.	Q		Mar.	c
	Apr.	r		Apr.	D		Apr.	R		Apr.	d
	May.	s		May.	E		May.	S		May.	e
	Jun.	t		Jun.	F		Jun.	T		Jun.	f
	Jul.	u		Jul.	G		Jul.	U		Jul.	g
	Aug.	v		Aug.	H		Aug.	V		Aug.	h
	Sept.	w		Sept.	J		Sept.	W		Sept.	j
	Oct.	x		Oct.	K		Oct.	X		Oct.	k
	Nov.	y		Nov.	L		Nov.	Y		Nov.	l
	Dec.	z		Dec.	M		Dec.	Z		Dec.	m

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Radial Leaded Y2 Interference Suppression Capacitors



Y2 STANDARD 300V VALUES AND CASE SIZE (mm)

Part Number	Cap. Value (μ F)	Capacitance Code	Standard Tolerance*	L ± 1.0	H ± 1.0	T ± 1.0	LS ± 1.0	LD ± 0.05
NPYT471K300VY2N1F	0.00047	471	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT471K300VY2N2F	0.00047	471	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT471K300VY2N3F	0.00047	471	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT561K300VY2N1F	0.00056	561	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT561K300VY2N2F	0.00056	561	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT561K300VY2N3F	0.00056	561	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT681K300VY2N1F	0.00068	681	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT681K300VY2N2F	0.00068	681	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT681K300VY2N3F	0.00068	681	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT821K300VY2N1F	0.00082	821	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT821K300VY2N2F	0.00082	821	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT821K300VY2N3F	0.00082	821	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT102K300VY2N1F	0.001	102	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT102K300VY2N2F	0.001	102	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT102K300VY2N3F	0.001	102	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT122K300VY2N1F	0.0012	122	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT122K300VY2N2F	0.0012	122	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT152K300VY2N1F	0.0015	152	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT152K300VY2N2F	0.0015	152	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT152K300VY2N3F	0.0015	152	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT182K300VY2N1F	0.0018	182	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT182K300VY2N3F	0.0018	182	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT222K300VY2N1F	0.0022	222	$\pm 10\%$ (K)	10.0	11.0	5.0	7.5	0.6
NPYT222K300VY2N2F	0.0022	222	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT222K300VY2N3F	0.0022	222	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT272K300VY2N1F	0.0027	272	$\pm 10\%$ (K)	10.0	11.0	5.0	7.5	0.6
NPYT272K300VY2N2F	0.0027	272	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT272K300VY2N3F	0.0027	272	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT332K300VY2N1F	0.0033	332	$\pm 10\%$ (K)	10.0	11.0	5.0	7.5	0.6
NPYT332K300VY2N2F	0.0033	332	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT332K300VY2N3F	0.0033	332	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT392K300VY2N1F	0.0039	392	$\pm 10\%$ (K)	10.0	11.0	5.0	7.5	0.6
NPYT392K300VY2N2F	0.0039	392	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT392K300VY2N3F	0.0039	392	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT472K300VY2N1F	0.0047	472	$\pm 10\%$ (K)	10.0	11.0	5.0	7.5	0.6
NPYT472K300VY2N2F	0.0047	472	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT472K300VY2N3F	0.0047	472	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT562K300VY2N1F	0.0056	562	$\pm 10\%$ (K)	10.0	11.0	5.0	7.5	0.6
NPYT562K300VY2N2F	0.0056	562	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT562K300VY2N3F	0.0056	562	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT682K300VY2N1F	0.0068	682	$\pm 10\%$ (K)	13.0	12.0	6.0	10.0	0.6
NPYT682K300VY2N2F	0.0068	682	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT822K300VY2N1F	0.0082	822	$\pm 10\%$ (K)	13.0	12.0	6.0	10.0	0.6
NPYT822K300VY2N2F	0.0082	822	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT103K300VY2N2F	0.01	103	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT123K300VY2N2F	0.012	123	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT153K300VY2N2F	0.015	153	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT183M300VY2N1F	0.018	183	$\pm 20\%$ (M)	18.0	11.0	5.0	15.0	0.6
NPYT223K300VY2N3F	0.022	223	$\pm 10\%$ (K)	17.5	11.0	5.5	15.0	0.6
NPYT333K300VY2N3F	0.033	333	$\pm 10\%$ (K)	26.5	15.0	6.0	22.5	0.8
NPYT393K300VY2N2F	0.039	393	$\pm 10\%$ (K)	26.5	15.0	6.0	22.5	0.8

*Also available in $\pm 5\%$ (J) and $\pm 20\%$ (M) tolerance.

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Y2 STANDARD 300V VALUES AND CASE SIZE (mm)

Part Number	Cap. Value (μF)	Capacitance Code	Standard Tolerance*	L ±1.0	H ±1.0	T ±1.0	LS ±1.0	LD ±0.05
NPYT473K300VY2N2F	0.047	473	±10% (K)	26.5	15.0	6.0	22.5	0.8
NPYT563K300VY2N2F	0.056	563	±10% (K)	26.5	15.0	6.0	22.5	0.8
NPYT683M300VY2N3F	0.068	683	±20% (M)	26.5	15.0	6.0	22.5	0.8
NPYT683K300VY2N4F	0.068	683	±10% (K)	26.5	16.5	7.0	22.5	0.8
NPYT823K300VY2N3F	0.082	823	±10% (K)	26.5	16.5	7.0	22.5	0.8
NPYT104M300VY2N1F	0.10	104	±20% (M)	18.0	16.0	10.0	15.0	0.8
NPYT104M300VY2N2F	0.10	104	±20% (M)	26.5	16.5	7.0	22.5	0.8
NPYT104K300VY2N3F	0.10	104	±10% (K)	32.0	18.0	9.0	27.5	0.8
NPYT124M300VY2N1F	0.12	124	±20% (M)	26.0	17.0	8.5	22.5	0.8
NPYT124K300VY2N2F	0.12	124	±10% (K)	32.0	18.0	9.0	27.5	0.8
NPYT154K300VY2N1F	0.15	154	±10% (K)	26.5	19.0	10.0	22.5	0.8
NPYT154K300VY2N2F	0.15	154	±10% (K)	32.0	18.0	9.0	27.5	0.8
NPYT184K300VY2N1F	0.18	184	±10% (K)	26.0	20.0	11.0	22.5	0.8
NPYT184K300VY2N2F	0.18	184	±10% (K)	31.4	19.5	10.8	27.5	0.8
NPYT224K300VY2N1F	0.22	224	±10% (K)	26.0	21.5	12.0	22.5	0.8
NPYT224K300VY2N2F	0.22	224	±10% (K)	30.0	21.0	11.8	27.5	0.8
NPYT274K300VY2N1F	0.27	274	±10% (K)	26.5	23.0	13.0	22.5	0.8
NPYT274M300VY2N2F	0.27	274	±20% (M)	31.4	19.5	10.8	27.5	0.8
NPYT274K300VY2N3F	0.27	274	±10% (K)	31.5	21.6	13.0	27.5	0.8
NPYT334K300VY2N1F	0.33	334	±10% (K)	26.0	25.0	15.0	22.5	0.8
NPYT334M300VY2N4F	0.33	334	±20% (M)	31.5	21.6	13.0	27.5	0.8
NPYT334K300VY2N5F	0.33	334	±10% (K)	31.0	25.0	14.0	27.5	0.8
NPYT334K300VY2N8F	0.33	334	±10% (K)	41.5	22.0	12.0	37.5	1.0
NPYT394M300VY2N1F	0.39	394	±20% (M)	26.0	25.0	15.0	22.5	0.8
NPYT394K300VY2N4F	0.39	394	±10% (K)	32.0	28.0	14.0	27.5	0.8
NPYT394K300VY2N7F	0.39	394	±10% (K)	41.0	24.0	13.0	37.5	1.0
NPYT394M300VY2N8F	0.39	394	±20% (M)	41.5	22.0	12.0	37.5	1.0
NPYT474M300VY2N3F	0.47	474	±20% (M)	32.0	28.0	14.0	27.5	0.8
NPYT474K300VY2N5F	0.47	474	±10% (K)	32.0	30.0	15.0	27.5	0.8
NPYT474K300VY2N8F	0.47	474	±10% (K)	41.0	24.0	13.0	37.5	1.0
NPYT474M300VY2N9F	0.47	474	±20% (M)	41.5	22.0	12.0	37.5	1.0
NPYT564K300VY2N1F	0.56	564	±10% (K)	32.0	28.0	18.0	27.5	0.8
NPYT564K300VY2N6F	0.56	564	±10% (K)	41.5	28.5	16.0	37.5	1.0
NPYT684M300VY2N1F	0.68	684	±20% (M)	31.0	33.0	18.0	27.5	0.8
NPYT684M300VY2N8F	0.68	684	±20% (M)	41.5	28.5	16.0	37.5	1.0
NPYT684K300VY2N9F	0.68	684	±10% (K)	41.5	30.0	17.0	37.5	1.0
NPYT824M300VY2N1F	0.82	824	±20% (M)	31.0	33.0	18.0	27.5	0.8
NPYT824K300VY2N3F	0.82	824	±10% (K)	32.0	37.0	22.0	27.5	0.8
NPYT824K300VY2N6F	0.82	824	±10% (K)	41.5	30.0	17.0	37.5	1.0
NPYT105K300VY2N1F	1.0	105	±10% (K)	32.0	37.0	22.0	27.5	0.8
NPYT105M300VY2N5F	1.0	105	±20% (M)	41.5	30.0	17.0	37.5	1.0
NPYT105K300VY2N7F	1.0	105	±10% (K)	41.5	33.5	20.5	37.5	1.0
NPYT155K300VY2N1F	1.5	155	±10% (K)	41.5	41.0	27.5	37.5	1.0
NPYT185K300VY2N2F	1.8	185	±10% (K)	41.5	45.0	30.0	37.5	1.0
NPYT205K300VY2N1F	2.0	205	±10% (K)	41.5	45.0	30.0	37.5	1.0

*Also available in ±5% (J) and ±20% (M) tolerance.

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Interference Suppression Capacitors



Y2 STANDARD 350V VALUES AND CASE SIZE (mm)

Part Number	Cap. Value (μF)	Capacitance Code	Standard Tolerance*	L ±1.0	H ±1.0	T ±1.0	LS ±1.0	LD ±0.05
NPYT471K350VY2N1F	0.00047	471	±10% (K)	10.0	9.0	4.0	7.5	0.6
NPYT471K350VY2N2F	0.00047	471	±10% (K)	13.0	11.0	5.0	10.0	0.6
NPYT471K350VY2N3F	0.00047	471	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT561K350VY2N1F	0.00056	561	±10% (K)	10.0	9.0	4.0	7.5	0.6
NPYT561K350VY2N2F	0.00056	561	±10% (K)	13.0	11.0	5.0	10.0	0.6
NPYT561K350VY2N3F	0.00056	561	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT681K350VY2N1F	0.00068	681	±10% (K)	10.0	9.0	4.0	7.5	0.6
NPYT681K350VY2N2F	0.00068	681	±10% (K)	13.0	11.0	5.0	10.0	0.6
NPYT681K350VY2N3F	0.00068	681	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT821K350VY2N1F	0.00082	821	±10% (K)	10.0	9.0	4.0	7.5	0.6
NPYT821K350VY2N2F	0.00082	821	±10% (K)	13.0	11.0	5.0	10.0	0.6
NPYT821K350VY2N3F	0.00082	821	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT102K350VY2N1F	0.001	102	±10% (K)	10.0	9.0	4.0	7.5	0.6
NPYT102K350VY2N2F	0.001	102	±10% (K)	13.0	11.0	5.0	10.0	0.6
NPYT102K350VY2N3F	0.001	102	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT122K350VY2N1F	0.0012	122	±10% (K)	10.0	9.0	4.0	7.5	0.6
NPYT122K350VY2N2F	0.0012	122	±10% (K)	13.0	11.0	5.0	10.0	0.6
NPYT152K350VY2N1F	0.0015	152	±10% (K)	10.0	9.0	4.0	7.5	0.6
NPYT152K350VY2N2F	0.0015	152	±10% (K)	13.0	11.0	5.0	10.0	0.6
NPYT152K350VY2N3F	0.0015	152	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT182K350VY2N1F	0.0018	182	±10% (K)	10.0	9.0	4.0	7.5	0.6
NPYT182K350VY2N3F	0.0018	182	±10% (K)	13.0	11.0	5.0	10.0	0.6
NPYT222K350VY2N1F	0.0022	222	±10% (K)	10.0	11.0	5.0	7.5	0.6
NPYT222K350VY2N2F	0.0022	222	±10% (K)	13.0	11.0	5.0	10.0	0.6
NPYT222K350VY2N3F	0.0022	222	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT272K350VY2N1F	0.0027	272	±10% (K)	10.0	11.0	5.0	7.5	0.6
NPYT272K350VY2N2F	0.0027	272	±10% (K)	13.0	11.0	5.0	10.0	0.6
NPYT272K350VY2N3F	0.0027	272	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT332K350VY2N1F	0.0033	332	±10% (K)	10.0	11.0	5.0	7.5	0.6
NPYT332K350VY2N2F	0.0033	332	±10% (K)	13.0	11.0	5.0	10.0	0.6
NPYT332K350VY2N3F	0.0033	332	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT392K350VY2N1F	0.0039	392	±10% (K)	10.0	11.0	5.0	7.5	0.6
NPYT392K350VY2N2F	0.0039	392	±10% (K)	13.0	11.0	5.0	10.0	0.6
NPYT392K350VY2N3F	0.0039	392	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT472K350VY2N1F	0.0047	472	±10% (K)	10.0	11.0	5.0	7.5	0.6
NPYT472K350VY2N2F	0.0047	472	±10% (K)	13.0	11.0	5.0	10.0	0.6
NPYT472K350VY2N3F	0.0047	472	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT562K350VY2N1F	0.0056	562	±10% (K)	10.0	11.0	5.0	7.5	0.6
NPYT562K350VY2N2F	0.0056	562	±10% (K)	13.0	11.0	5.0	10.0	0.6
NPYT562K350VY2N3F	0.0056	562	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT682K350VY2N1F	0.0068	682	±10% (K)	13.0	12.0	6.0	10.0	0.6
NPYT682K350VY2N2F	0.0068	682	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT822K350VY2N1F	0.0082	822	±10% (K)	13.0	12.0	6.0	10.0	0.6
NPYT822K350VY2N2F	0.0082	822	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT103K350VY2N2F	0.01	103	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT123K350VY2N2F	0.012	123	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT153K350VY2N2F	0.015	153	±10% (K)	18.0	11.0	5.0	15.0	0.6
NPYT183M350VY2N1F	0.018	183	±20% (M)	18.0	11.0	5.0	15.0	0.6
NPYT223K350VY2N3F	0.022	223	±10% (K)	17.5	11.0	5.5	15.0	0.6
NPYT333K350VY2N3F	0.033	333	±10% (K)	26.5	15.0	6.0	22.5	0.8
NPYT393K350VY2N2F	0.039	393	±10% (K)	26.5	15.0	6.0	22.5	0.8

*Also available in ±5% (J) and ±20% (M) tolerance.

NPYT Y2 Series

Radial Leaded Y2

Interference Suppression Capacitors



Y2 STANDARD 350V VALUES AND CASE SIZE (mm)

Part Number	Cap. Value (μ F)	Capacitance Code	Standard Tolerance*	L ± 1.0	H ± 1.0	T ± 1.0	LS ± 1.0	LD ± 0.05
NPYT473K350VY2N2F	0.047	473	$\pm 10\%$ (K)	26.5	15.0	6.0	22.5	0.8
NPYT563K350VY2N2F	0.056	563	$\pm 10\%$ (K)	26.5	15.0	6.0	22.5	0.8
NPYT683M350VY2N3F	0.068	683	$\pm 20\%$ (M)	26.5	15.0	6.0	22.5	0.8
NPYT683K350VY2N4F	0.068	683	$\pm 10\%$ (K)	26.5	16.5	7.0	22.5	0.8
NPYT823K350VY2N3F	0.082	823	$\pm 10\%$ (K)	26.5	16.5	7.0	22.5	0.8
NPYT104M350VY2N1F	0.10	104	$\pm 20\%$ (M)	18.0	16.0	10.0	15.0	0.8
NPYT104M350VY2N2F	0.10	104	$\pm 20\%$ (M)	26.5	16.5	7.0	22.5	0.8
NPYT104K350VY2N3F	0.10	104	$\pm 10\%$ (K)	32.0	18.0	9.0	27.5	0.8
NPYT124M350VY2N1F	0.12	124	$\pm 20\%$ (M)	26.0	17.0	8.5	22.5	0.8
NPYT124K350VY2N2F	0.12	124	$\pm 10\%$ (K)	32.0	18.0	9.0	27.5	0.8
NPYT154K350VY2N1F	0.15	154	$\pm 10\%$ (K)	26.5	19.0	10.0	22.5	0.8
NPYT154K350VY2N2F	0.15	154	$\pm 10\%$ (K)	32.0	18.0	9.0	27.5	0.8
NPYT184K350VY2N1F	0.18	184	$\pm 10\%$ (K)	26.0	20.0	11.0	22.5	0.8
NPYT184K350VY2N2F	0.18	184	$\pm 10\%$ (K)	31.4	19.5	10.8	27.5	0.8
NPYT224K350VY2N1F	0.22	224	$\pm 10\%$ (K)	26.0	21.5	12.0	22.5	0.8
NPYT224K350VY2N2F	0.22	224	$\pm 10\%$ (K)	30.0	21.0	11.8	27.5	0.8
NPYT274K350VY2N1F	0.27	274	$\pm 10\%$ (K)	26.5	23.0	13.0	22.5	0.8
NPYT274M350VY2N2F	0.27	274	$\pm 20\%$ (M)	31.4	19.5	10.8	27.5	0.8
NPYT274K350VY2N3F	0.27	274	$\pm 10\%$ (K)	31.5	21.6	13.0	27.5	0.8
NPYT334K350VY2N1F	0.33	334	$\pm 10\%$ (K)	26.0	25.0	15.0	22.5	0.8
NPYT334M350VY2N4F	0.33	334	$\pm 20\%$ (M)	31.5	21.6	13.0	27.5	0.8
NPYT334K350VY2N5F	0.33	334	$\pm 10\%$ (K)	31.0	25.0	14.0	27.5	0.8
NPYT334K350VY2N8F	0.33	334	$\pm 10\%$ (K)	41.5	22.0	12.0	37.5	1.0
NPYT394M350VY2N1F	0.39	394	$\pm 20\%$ (M)	26.0	25.0	15.0	22.5	0.8
NPYT394K350VY2N4F	0.39	394	$\pm 10\%$ (K)	32.0	28.0	14.0	27.5	0.8
NPYT394K350VY2N7F	0.39	394	$\pm 10\%$ (K)	41.0	24.0	13.0	37.5	1.0
NPYT394M350VY2N8F	0.39	394	$\pm 20\%$ (M)	41.5	22.0	12.0	37.5	1.0
NPYT474M350VY2N3F	0.47	474	$\pm 20\%$ (M)	32.0	28.0	14.0	27.5	0.8
NPYT474K350VY2N5F	0.47	474	$\pm 10\%$ (K)	32.0	30.0	15.0	27.5	0.8
NPYT474K350VY2N8F	0.47	474	$\pm 10\%$ (K)	41.0	24.0	13.0	37.5	1.0
NPYT474M350VY2N9F	0.47	474	$\pm 20\%$ (M)	41.5	22.0	12.0	37.5	1.0
NPYT564K350VY2N1F	0.56	564	$\pm 10\%$ (K)	32.0	28.0	18.0	27.5	0.8
NPYT564K350VY2N6F	0.56	564	$\pm 10\%$ (K)	41.5	28.5	16.0	37.5	1.0
NPYT684M350VY2N1F	0.68	684	$\pm 20\%$ (M)	31.0	33.0	18.0	27.5	0.8
NPYT684M350VY2N8F	0.68	684	$\pm 20\%$ (M)	41.5	28.5	16.0	37.5	1.0
NPYT684K350VY2N9F	0.68	684	$\pm 10\%$ (K)	41.5	30.0	17.0	37.5	1.0
NPYT824M350VY2N1F	0.82	824	$\pm 20\%$ (M)	31.0	33.0	18.0	27.5	0.8
NPYT824K350VY2N3F	0.82	824	$\pm 10\%$ (K)	32.0	37.0	22.0	27.5	0.8
NPYT824K350VY2N6F	0.82	824	$\pm 10\%$ (K)	41.5	30.0	17.0	37.5	1.0
NPYT105K350VY2N1F	1.0	105	$\pm 10\%$ (K)	32.0	37.0	22.0	27.5	0.8
NPYT105M350VY2N5F	1.0	105	$\pm 20\%$ (M)	41.5	30.0	17.0	37.5	1.0
NPYT105K350VY2N7F	1.0	105	$\pm 10\%$ (K)	41.5	33.5	20.5	37.5	1.0
NPYT155K350VY2N1F	1.5	155	$\pm 10\%$ (K)	41.5	41.0	27.5	37.5	1.0
NPYT185K350VY2N2F	1.8	185	$\pm 10\%$ (K)	41.5	45.0	30.0	37.5	1.0
NPYT205K350VY2N1F	2.0	205	$\pm 10\%$ (K)	41.5	45.0	30.0	37.5	1.0

*Also available in $\pm 5\%$ (J) and $\pm 20\%$ (M) tolerance.

NPYT Y2 Series

Radial Leaded Y2

Interference Suppression Capacitors



Y2 STANDARD 500V VALUES AND CASE SIZE (mm)

Part Number	Cap. Value (μ F)	Capacitance Code	Standard Tolerance*	L ± 1.0	H ± 1.0	T ± 1.0	LS ± 1.0	LD ± 0.05
NPYT471K500VY2N1F	0.00047	471	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT471K500VY2N2F	0.00047	471	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT471K500VY2N3F	0.00047	471	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT561K500VY2N1F	0.00056	561	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT561K500VY2N2F	0.00056	561	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT561K500VY2N3F	0.00056	561	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT681K500VY2N1F	0.00068	681	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT681K500VY2N2F	0.00068	681	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT681K500VY2N3F	0.00068	681	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT821K500VY2N1F	0.00082	821	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT821K500VY2N2F	0.00082	821	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT821K500VY2N3F	0.00082	821	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT102K500VY2N1F	0.001	102	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT102K500VY2N2F	0.001	102	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT102K500VY2N3F	0.001	102	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT122K500VY2N1F	0.0012	122	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT122K500VY2N2F	0.0012	122	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT152K500VY2N1F	0.0015	152	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT152K500VY2N2F	0.0015	152	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT152K500VY2N3F	0.0015	152	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT182K500VY2N1F	0.0018	182	$\pm 10\%$ (K)	10.0	9.0	4.0	7.5	0.6
NPYT182K500VY2N3F	0.0018	182	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT222K500VY2N1F	0.0022	222	$\pm 10\%$ (K)	10.0	11.0	5.0	7.5	0.6
NPYT222K500VY2N2F	0.0022	222	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT222K500VY2N3F	0.0022	222	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT272K500VY2N1F	0.0027	272	$\pm 10\%$ (K)	10.0	11.0	5.0	7.5	0.6
NPYT272K500VY2N2F	0.0027	272	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT272K500VY2N3F	0.0027	272	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT332K500VY2N1F	0.0033	332	$\pm 10\%$ (K)	10.0	11.0	5.0	7.5	0.6
NPYT332K500VY2N2F	0.0033	332	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT332K500VY2N3F	0.0033	332	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT392K500VY2N1F	0.0039	392	$\pm 10\%$ (K)	10.0	11.0	5.0	7.5	0.6
NPYT392K500VY2N2F	0.0039	392	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT392K500VY2N3F	0.0039	392	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT472K500VY2N1F	0.0047	472	$\pm 10\%$ (K)	10.0	11.0	5.0	7.5	0.6
NPYT472K500VY2N2F	0.0047	472	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT472K500VY2N3F	0.0047	472	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT562K500VY2N1F	0.0056	562	$\pm 10\%$ (K)	10.0	11.0	5.0	7.5	0.6
NPYT562K500VY2N2F	0.0056	562	$\pm 10\%$ (K)	13.0	11.0	5.0	10.0	0.6
NPYT562K500VY2N3F	0.0056	562	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT682K500VY2N1F	0.0068	682	$\pm 10\%$ (K)	13.0	12.0	6.0	10.0	0.6
NPYT682K500VY2N2F	0.0068	682	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT822K500VY2N1F	0.0082	822	$\pm 10\%$ (K)	13.0	12.0	6.0	10.0	0.6
NPYT822K500VY2N2F	0.0082	822	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT103K500VY2N2F	0.01	103	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT123K500VY2N2F	0.012	123	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT153K500VY2N2F	0.015	153	$\pm 10\%$ (K)	18.0	11.0	5.0	15.0	0.6
NPYT183M500VY2N1F	0.018	183	$\pm 20\%$ (M)	18.0	11.0	5.0	15.0	0.6
NPYT223K500VY2N3F	0.022	223	$\pm 10\%$ (K)	17.5	11.0	5.5	15.0	0.6
NPYT333K500VY2N3F	0.033	333	$\pm 10\%$ (K)	26.5	15.0	6.0	22.5	0.8
NPYT393K500VY2N2F	0.039	393	$\pm 10\%$ (K)	26.5	15.0	6.0	22.5	0.8

*Also available in $\pm 5\%$ (J) and $\pm 20\%$ (M) tolerance.

NPYT Y2 Series

Radial Leaded Y2

Interference Suppression Capacitors



Y2 STANDARD 500V VALUES AND CASE SIZE (mm)

Part Number	Cap. Value (μ F)	Capacitance Code	Standard Tolerance*	L ± 1.0	H ± 1.0	T ± 1.0	LS ± 1.0	LD ± 0.05
NPYT473K500VY2N2F	0.047	473	$\pm 10\%$ (K)	26.5	15.0	6.0	22.5	0.8
NPYT563K500VY2N2F	0.056	563	$\pm 10\%$ (K)	26.5	15.0	6.0	22.5	0.8
NPYT683M500VY2N3F	0.068	683	$\pm 20\%$ (M)	26.5	15.0	6.0	22.5	0.8
NPYT683K500VY2N4F	0.068	683	$\pm 10\%$ (K)	26.5	16.5	7.0	22.5	0.8
NPYT823K500VY2N3F	0.082	823	$\pm 10\%$ (K)	26.5	16.5	7.0	22.5	0.8
NPYT104M500VY2N1F	0.10	104	$\pm 20\%$ (M)	18.0	16.0	10.0	15.0	0.8
NPYT104M500VY2N2F	0.10	104	$\pm 20\%$ (M)	26.5	16.5	7.0	22.5	0.8
NPYT104K500VY2N3F	0.10	104	$\pm 10\%$ (K)	32.0	18.0	9.0	27.5	0.8
NPYT124M500VY2N1F	0.12	124	$\pm 20\%$ (M)	26.0	17.0	8.5	22.5	0.8
NPYT124K500VY2N2F	0.12	124	$\pm 10\%$ (K)	32.0	18.0	9.0	27.5	0.8
NPYT154K500VY2N1F	0.15	154	$\pm 10\%$ (K)	26.5	19.0	10.0	22.5	0.8
NPYT154K500VY2N2F	0.15	154	$\pm 10\%$ (K)	32.0	18.0	9.0	27.5	0.8
NPYT184K500VY2N1F	0.18	184	$\pm 10\%$ (K)	26.0	20.0	11.0	22.5	0.8
NPYT184K500VY2N2F	0.18	184	$\pm 10\%$ (K)	31.4	19.5	10.8	27.5	0.8
NPYT224K500VY2N1F	0.22	224	$\pm 10\%$ (K)	26.0	21.5	12.0	22.5	0.8
NPYT224K500VY2N2F	0.22	224	$\pm 10\%$ (K)	30.0	21.0	11.8	27.5	0.8
NPYT274K500VY2N1F	0.27	274	$\pm 10\%$ (K)	26.5	23.0	13.0	22.5	0.8
NPYT274M500VY2N2F	0.27	274	$\pm 20\%$ (M)	31.4	19.5	10.8	27.5	0.8
NPYT274K500VY2N3F	0.27	274	$\pm 10\%$ (K)	31.5	21.6	13.0	27.5	0.8
NPYT334K500VY2N1F	0.33	334	$\pm 10\%$ (K)	26.0	25.0	15.0	22.5	0.8
NPYT334M500VY2N4F	0.33	334	$\pm 20\%$ (M)	31.5	21.6	13.0	27.5	0.8
NPYT334K500VY2N5F	0.33	334	$\pm 10\%$ (K)	31.0	25.0	14.0	27.5	0.8
NPYT334K500VY2N8F	0.33	334	$\pm 10\%$ (K)	41.5	22.0	12.0	37.5	1.0
NPYT394M500VY2N1F	0.39	394	$\pm 20\%$ (M)	26.0	25.0	15.0	22.5	0.8
NPYT394K500VY2N4F	0.39	394	$\pm 10\%$ (K)	32.0	28.0	14.0	27.5	0.8
NPYT394K500VY2N7F	0.39	394	$\pm 10\%$ (K)	41.0	24.0	13.0	37.5	1.0
NPYT394M500VY2N8F	0.39	394	$\pm 20\%$ (M)	41.5	22.0	12.0	37.5	1.0
NPYT474M500VY2N3F	0.47	474	$\pm 20\%$ (M)	32.0	28.0	14.0	27.5	0.8
NPYT474K500VY2N5F	0.47	474	$\pm 10\%$ (K)	32.0	30.0	15.0	27.5	0.8
NPYT474K500VY2N8F	0.47	474	$\pm 10\%$ (K)	41.0	24.0	13.0	37.5	1.0
NPYT474M500VY2N9F	0.47	474	$\pm 20\%$ (M)	41.5	22.0	12.0	37.5	1.0
NPYT564K500VY2N1F	0.56	564	$\pm 10\%$ (K)	32.0	28.0	18.0	27.5	0.8
NPYT564K500VY2N6F	0.56	564	$\pm 10\%$ (K)	41.5	28.5	16.0	37.5	1.0
NPYT684M500VY2N1F	0.68	684	$\pm 20\%$ (M)	31.0	33.0	18.0	27.5	0.8
NPYT684M500VY2N8F	0.68	684	$\pm 20\%$ (M)	41.5	28.5	16.0	37.5	1.0
NPYT684K500VY2N9F	0.68	684	$\pm 10\%$ (K)	41.5	30.0	17.0	37.5	1.0
NPYT824M500VY2N1F	0.82	824	$\pm 20\%$ (M)	31.0	33.0	18.0	27.5	0.8
NPYT824K500VY2N3F	0.82	824	$\pm 10\%$ (K)	32.0	37.0	22.0	27.5	0.8
NPYT824K500VY2N6F	0.82	824	$\pm 10\%$ (K)	41.5	30.0	17.0	37.5	1.0
NPYT105K500VY2N1F	1.0	105	$\pm 10\%$ (K)	32.0	37.0	22.0	27.5	0.8
NPYT105M500VY2N5F	1.0	105	$\pm 20\%$ (M)	41.5	30.0	17.0	37.5	1.0
NPYT105K500VY2N7F	1.0	105	$\pm 10\%$ (K)	41.5	33.5	20.5	37.5	1.0
NPYT155K500VY2N1F	1.5	155	$\pm 10\%$ (K)	41.5	41.0	27.5	37.5	1.0
NPYT185K500VY2N2F	1.8	185	$\pm 10\%$ (K)	41.5	45.0	30.0	37.5	1.0
NPYT205K500VY2N1F	2.0	205	$\pm 10\%$ (K)	41.5	45.0	30.0	37.5	1.0

*Also available in $\pm 5\%$ (J) and $\pm 20\%$ (M) tolerance.

NPYT Y2 Series

Radial Leaded Y2

Interference Suppression Capacitors



ENVIRONMENTAL CHARACTERISTICS

Item	Test Method	Standard
Endurance	+110°C±2°C, 170% of RV for 1,000 hours (Voltage applied through 47Ω ± 5% resistor, every hour voltage is increased to 1,000Vrms for 0.1 seconds).	Physical: No remarkable physical Capacitance: Within ±10% of initial measured value DF: 0.8% max. IR ≥ 50% of specified value
Moisture Resistance	+40°C±2°C, Rated Voltage, 87% ~ 93% RH, 500 hours. (Part stabilized at room temperature for 1.5 ± 0.5 hours before taking measurements)	Physical: No remarkable physical Capacitance: Within ±5% of initial measured value DF: ≤ 0.2%, IR ≥ 50% of specified value
Temperature Cycling	A total of 5 cycles. Each cycle includes: 1. +20 ± 2°C for 3 minutes 2. -40 ± 3°C for 30 minutes 3. +20 ± 2°C for 3 minutes 4. +110 ± 3°C for 30 minutes 5. +20 ± 2°C for 3 minutes After test allow parts to stabilized at room temperature for 1.5 ± 0.5 hours before taking measurements.	Physical: No remarkable physical Capacitance: Within ±5% of initial measured value DF: ≤ 0.2%, IR ≥ 50% of specified value
Resistance to Dry Heat	+110 ± 2°C for 16 +1/-0 hours	Physical: No remarkable physical Capacitance: Within ±5% of initial measured value DF: ≤ 0.2%, IR ≥ 50% of specified value
Resistance to Cold	-40°C ± 3°C for 2 hours ± 1 hours	Physical: No remarkable physical Capacitance: Within ±5% of initial measured value DF: ≤ 0.2%, IR ≥ 50% of specified value
Resistance to Soldering Heat	Preheat: +100°C ~ +120°C (60 seconds max). Ramp-up rate: 3°C per second max. Peak soldering temperature: +260 ± 5°C for 5 seconds max. Immersion depth: 4.8mm max from base of component (Part stabilized at room temperature for 1.5 ± 0.5 hours before taking measurements)	Physical: No remarkable physical Capacitance: Within ±5% of initial measured value DF: ≤ 0.2%, IR ≥ 50% of specified value
Vibration	Frequency: 10-55-10Hz Magnitude: 1.5mm in X, Y and Z directions Duration: 2 +1/-0 hours in each direction	No short/open circuit and stable connection
Terminal Strength	Apply 1.0Kg of force for 10 ± 1 seconds to the terminal in the axial direction away from the body of the part.	No abnormalities
Bending Strength	Apply 0.5Kg of force for 2 cycles. Each cycle includes 90° once, return to original position for 2 ~ 3 seconds and then bend in the opposite direction.	No abnormalities

NPYT Y2 Series

Radial Leaded Y2

Interference Suppression Capacitors

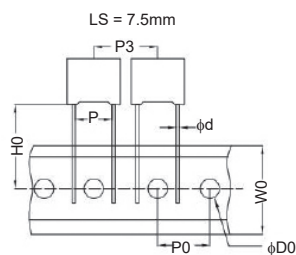


Fig. 1

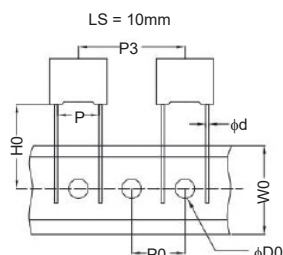


Fig. 2

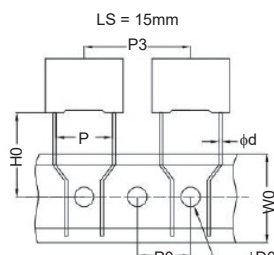


Fig. 3

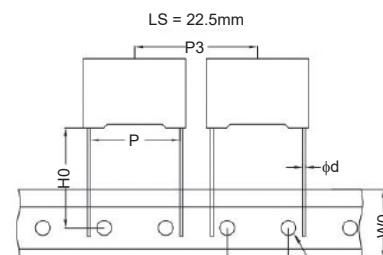
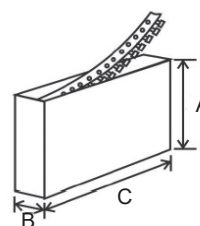


Fig. 4

Description	Symbol	7.5mm	10mm	15mm	22.5mm	Tol.
		Fig. 1	Fig. 2	Fig. 3	Fig. 4	
Lead wire diameter	ϕd	0.6	0.6	0.6/0.8	0.8	± 0.05
Taping pitch	P3	12.7	25.4	25.4	30.0	± 1.5
Feed hole pitch	P0	12.7	12.7	12.7	15.0	± 0.3
Lead spacing (pitch)	P	7.5	10.0	15.0	22.5	± 0.5
Height of component from tape center	H0	18.5	18.5	18.5	18.5	± 1.0
Carrier tape width	W3	18.0	18.0	18.0	18.0	± 1.0
Feed hole diameter	D0	4.0	4.0	4.0	4.0	± 0.3

Pitch	Box Thickness	Ammo-pack
(mm)	T (mm)	(Pcs/Box)
7.5	4	1300
	5	1000
	6	800
	8.5/9/5	550
10	4	650
	5	500
	6	450
	8	300
15	5/5,5	450
	6	400
	7.5	300
	8.5/10	250
22.5	11	200
	7	250
	10	160
	12	150

(Box size for Ammo-pack)



Unit: mm

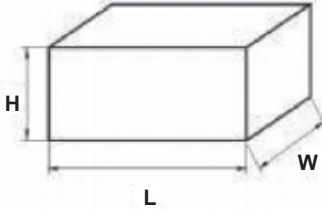
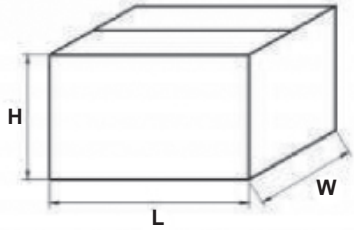
A = 270 ± 3 mm
B = 50 ± 3 mm
C = 335 ± 3 mm

NPYT Y2 Series

Radial Leaded Y2

Interference Suppression Capacitors



INNER BOX SPECIFICATIONS (mm)				
Box #	L ± 3	W ± 3	H ± 3	
# 1	290	220	75	
# 2	290	220	150	
OUTER BOX SPECIFICATIONS (mm)				
Box #	L ± 5	W ± 5	H ± 5	
# A	450	300	165	
# B	450	300	320	
# C	450	300	245	

PACKAGING QUANTITY

PITCH	W	H	T	SPQ		PITCH	W	H	T	SPQ
P:7.5	10	9	4	500		P:27.5	31	25	14	360
	10	11	5	500			31	33	18	180
P:10	13	11	5	200			31.4	19.5	10.8	660
	13	12	6	200			31.5	21.6	13	504
P:15	18	16	10	200			32	18	9	720
	17.5	11	5.5	200			32	28	14	360
	18	11	5	200			32	28	18	270
P:22.5	26.5	15	6	100			32	30	15	270
	26	17	8.5	100			32	37	22	156
	26	20	11	100		P:37.5	41	24	13	315
	26	21.5	12	100			41.5	22	12	336
	26	25	15	100			41.5	28.5	16	256
	26.5	16.5	7	100			41.5	30	17	192
	26.5	19	10	100			41.5	33.5	20.5	165
	26.5	23	13	100			41.5	41	27.5	80
	26.5	23	13	100			41.5	45	30	72
P:27.5	30	21.	11.8	552						

Note: Subject to actual quantity (P:7.5-P:22.5 represent the quantity in bags,while P:27.5-P:37.5 represent the quantity in boxes)

Performance Passives By Design

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Page 11
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Last Updated 7/15/2026. Specification subject to change without notice. Please check web site for latest information.