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Issued: August 6, 2019

SUB: EOL Notice

Product Type: Radial Leaded Aluminum Electrolytic Capacitors
NIC Series: NRWPC

Notification: End of Life Notification

The following is notification of the end of life of the NRWPC series of radial leaded aluminum electrolytic capacitors.

Effective: August 6, 2019

Last Order Date: February 6, 2020 for established customers with existing business on these part numbers

Last Ship Date: August 6, 2020 for established customers with existing business on these part numbers

Reason for Discontinuation: Low Demand

Prepared by: Technical Product Marketing Group / tpmg@niccomp.com

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Discontinued Part Number	Cap. (μ F)	Voltage (VDC)	Case Size (DxL)	Possible Alternative
NRWPCR47M160V5X11F	0.47	160	5X11	NRE-HWR47M160V5X11F
NRWPC1R0M160V5X11F	1	160	5X11	NRE-HW1R0M160V5X11F
NRWPC2R2M160V6.3X11F	2.2	160	6.3X11	NRE-HW2R2M160V6.3X11F
NRWPC3R3M160V6.3X11F	3.3	160	6.3X11	NRE-HW3R3M160V6.3X11F
NRWPC4R7M160V6.3X11F	4.7	160	6.3X11	NRE-HW4R7M160V6.3X11F
NRWPC6R8M160V8X12F	6.8	160	8X12	NRE-HS6R8M160V8X9F
NRWPC100M160V8X12F	10	160	8X12	NRE-HW100M160V8X11.5F
NRWPC150M160V10X12F	15	160	10X12	NRB-XL150M160V10X9F
NRWPC220M160V10X20F	22	160	10X20	NRB-XL220M160V10X12.5F
NRWPC330M160V10X20F	33	160	10X20	NRB-XL330M160V10X16F
NRWPC470M160V12.5X20F	47	160	12.5X20	NRE-HW470M160V12.5X20F
NRWPC560M160V12.5X20F	56	160	12.5X20	NRB-XS680M160V12.5x20F
NRWPC680M160V12.5X25F	68	160	12.5X25	NRB-XS680M160V12.5x20F
NRWPC820M160V12.5X25F	82	160	12.5X25	NRB-XW820M160V10X25F
NRWPC101M160V16X25F	100	160	16X25	NRB-XS101M160V16X20F
NRWPC121M160V16X25F	120	160	16X25	NRB-XS151M160V16X25F
NRWPC151M160V16X32F	150	160	16X32	NRB-XS151M160V16X25F
NRWPC181M160V16X36F	180	160	16X36	NRB-XZ181M160V16X20F
NRWPC221M160V16X36F	220	160	16X36	NRB-XW221M160V16X25F
NRWPC331M160V18X36F	330	160	18X36	NRWP331M160V18X31.5F
NRWPC471M160V18X45F	470	160	18X45	NRWP471M160V18X40F
NRWPC561M160V18X51F	560	160	18X51	NRB-XZ561M160V18X35F
NRWPCR47M200V5X11F	0.47	200	5X11	NRE-HWR47M200V5X11F
NRWPC1R0M200V5X11F	1	200	5X11	NRE-HW1R0M200V5X11F
NRWPC2R2M200V6.3X11F	2.2	200	6.3X11	NRE-HW2R2M200V6.3X11F



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Discontinued Part Number	Cap. (μ F)	Voltage (VDC)	Case Size (DxL)	Possible Alternative
NRWPC3R3M200V6.3X11F	3.3	200	6.3X11	NRE-HW3R3M200V6.3X11F
NRWPC4R7M200V8X12F	4.7	200	8X12	NRE-HW4R7M200V8X11.5F
NRWPC6R8M200V8X12F	6.8	200	8X12	NRB-XL6R8M200V8X9F
NRWPC100M200V10X12F	10	200	10X12	NRE-HS100M200V10X9F
NRWPC150M200V10X16F	15	200	10X16	NRE-HW220M200V10X16F
NRWPC220M200V10X20F	22	200	10X20	NRE-WY220M200V10X16F
NRWPC330M200V12.5x20F	33	200	12.5x20	NRE-HS330M200V12.5X16F
NRWPC470M200V12.5x20F	47	200	12.5x20	NRWP470M200V10X20F
NRWPC560M200V12.5x20F	56	200	12.5x20	NRB-XZ680M200V12.5X20F
NRWPC680M200V12.5x25F	68	200	12.5x25	NRB-XZ680M200V12.5X20F
NRWPC820M200V16x25F	82	200	16x25	NRB-XS820M200V16X20F
NRWPC101M200V16x25F	100	200	16x25	NRWP101M200V16X25F
NRWPC121M200V16x32F	120	200	16x32	NRB-XZ121M200V16X20F
NRWPC151M200V16x32F	150	200	16x32	NRB-XS151M200V16X25F
NRWPC181M200V16x36F	180	200	16x36	NRB-XW181M200V16X25F
NRWPC221M200V16x36F	220	200	16x36	NRWP221M200V16X35.5F
NRWPC331M200V18x36F	330	200	18x36	NRWP331M200V18X40F
NRWPC471M200V18x45F	470	200	18x45	NRB-XW471M200V18X40F
NRWPC561M200V18x51F	560	200	18x51	NRB-XW561M200V18X45F
NRWPCR47M250V5x11F	0.47	250	5x11	NRWPR47M250V6.3X11F
NRWPC1R0M250V6.3x11F	1	250	6.3x11	NRWP1R0M250V6.3X11F
NRWPC2R2M250V6.3x11F	2.2	250	6.3x11	NRWP2R2M250V6.3X11F
NRWPC3R3M250V8x12F	3.3	250	8x12	NRE-HW3R3M250V8X11.5F
NRWPC4R7M250V8x12F	4.7	250	8x12	NRWP4R7M250V8X11.5F
NRWPC6R8M250V10x12F	6.8	250	10x12	NRE-HS6R8M250V10x9F
NRWPC100M250V10x16F	10	250	10x16	NRWP100M250V10X12.5F
NRWPC150M250V10x16F	15	250	10x16	NRWP220M250V10X16F
NRWPC220M250V12.5x20F	22	250	12.5x20	NRE-HS220M250V12.5X16F
NRWPC330M250V12.5x20F	33	250	12.5x20	NRE-HW330M250V12.5X20F
NRWPC470M250V12.5x25F	47	250	12.5x25	NRWP470M250V12.5X20F
NRWPC560M250V12.5x25F	56	250	12.5x25	NRB-XZ560M250V12.5X20F
NRWPC680M250V16x25F	68	250	16x25	NRE-HW680M250V16x25F
NRWPC820M250V16x25F	82	250	16x25	NRB-XS820M250V16x20F
NRWPC101M250V16x32F	100	250	16x32	NRWP101M250V16X25F
NRWPC121M250V16x32F	120	250	16x32	NRB-XW121M250V16X25F
NRWPC151M250V16x36F	150	250	16x36	NRE-HW151M250V18X36F
NRWPC181M250V18x36F	180	250	18x36	NRB-XW181M250V18X25F
NRWPC221M250V18x36F	220	250	18x36	NRWP221M250V18X35.5F
NRWPC331M250V18x45F	330	250	18x45	NRB-XW331M250V18x40F
NRWPCR47M350V5x11F	0.47	350	5x11	NRWPR47M350V6.3X11F
NRWPC1R0M350V6.3x11F	1	350	6.3x11	NRWP1R0M350V6.3X11F
NRWPC2R2M350V8x12F	2.2	350	8x12	NRE-HW2R2M350V8X11.5F
NRWPC3R3M350V8x12F	3.3	350	8x12	NRWP3R3M350V8X11.5F
NRWPC4R7M350V10x12F	4.7	350	10x12	NRE-HW4R7M350V10X12.5F



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Discontinued Part Number	Cap. (μ F)	Voltage (VDC)	Case Size (DxL)	Possible Alternative
NRWPC6R8M350V10x16F	6.8	350	10x16	NRB-XS6R8M350V10X16F
NRWPC100M350V10x20F	10	350	10x20	NRWP100M350V10X16F
NRWPC150M350V12.5x20F	15	350	12.5x20	NRWP220M350V12.5X20F
NRWPC220M350V12.5x25F	22	350	12.5x25	NRWP220M350V12.5X20F
NRWPC330M350V16x25F	33	350	16x25	NRE-HW330M350V16X25F
NRWPC470M350V16x25F	47	350	16x25	NRWP470M350V16X25F
NRWPC560M350V16x32F	56	350	16x32	NRB-XZ560M350V16X20F
NRWPC680M350V16x36F	68	350	16x36	NRE-HW680M350V16X36F
NRWPC820M350V18x32F	82	350	18x32	NRB-XZ820M350V18X20F
NRWPC101M350V18x32F	100	350	18x32	NRWP101M350V18X31.5F
NRWPC121M350V18x36F	120	350	18x36	NRB-XZ121M350V16X35F
NRWPC151M350V18x40F	150	350	18x40	NRB-XZ151M350V18X30F
NRWPC181M350V18x45F	180	350	18x45	NRB-XZ181M350V18X35F
NRWPCR47M400V6.3x11F	0.47	400	6.3x11	NRE-HWR47M400V6.3X11F
NRWPC1R0M400V6.3x11F	1	400	6.3x11	NRWP1R0M400V6.3X11F
NRWPC2R2M400V8x12F	2.2	400	8x12	NRWP2R2M400V8X11.5F
NRWPC3R3M400V8x12F	3.3	400	8x12	NRWP3R3M400V8X11.5F
NRWPC4R7M400V10x16F	4.7	400	10x16	NRWP4R7M400V10X12.5F
NRWPC6R8M400V10x16F	6.8	400	10x16	NRB-XL6R8M400V10X16F
NRWPC100M400V10x20F	10	400	10x20	NRE-HW100M400V10X20F
NRWPC150M400V12.5x20F	15	400	12.5x20	NRE-AX150M400V10X16F
NRWPC220M400V12.5x25F	22	400	12.5x25	NRWP220M400V12.5X20F
NRWPC330M400V16x25F	33	400	16x25	NRWP330M400V16X25F
NRWPC470M400V16x25F	47	400	16x25	NRWP470M400V16X25F
NRWPC560M400V16x32F	56	400	16x32	NRB-SZ560M400V16X20F
NRWPC680M400V16x36F	68	400	16x36	NRE-HW680M400V18X36F
NRWPC820M400V18x32F	82	400	18x32	NRB-SZ820M400V18X20F
NRWPC101M400V18x32F	100	400	18x32	NRWP101M400V18X35.5F
NRWPC121M400V18x36F	120	400	18x36	NRB-XW121M400V18X35F
NRWPC151M400V18x40F	150	400	18x40	NRB-XZ151M400V18X35F
NRWPC181M400V18x45F	180	400	18x45	NRB-SZ181M400V18X35F
NRWPCR47M450V6.3x11F	0.47	450	6.3x11	NRWP1R0M450V6.3X11F
NRWPC1R0M450V8x12F	1	450	8x12	NRWP1R0M450V6.3X11F
NRWPC2R2M450V8x12F	2.2	450	8x12	NRWP2R2M450V8X11.5F
NRWPC3R3M450V10x12F	3.3	450	10x12	NRWP4R7M450V10X12.5F
NRWPC4R7M450V10x16F	4.7	450	10x16	NRWP4R7M450V10X12.5F
NRWPC6R8M450V10x20F	6.8	450	10x20	NRB-XS6R8M450V10X16F
NRWPC100M450V12.5x20F	10	450	12.5x20	NRB-XS100M450V12.5X16F
NRWPC150M450V12.5x25F	15	450	12.5x25	NRB-XS150M450V12.5X20F
NRWPC220M450V16x25F	22	450	16x25	NRE-HW220M450V16X25F
NRWPC330M450V16x32F	33	450	16x32	NRE-HW330M450V16X31F
NRWPC470M450V18x32F	47	450	18x32	NRE-HS470M450V18X25F
NRWPC560M450V18x32F	56	450	18x32	NRB-XZ560M450V18X25F
NRWPC680M450V18x36F	68	450	18x36	NRB-XW680M450V18X25F



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Discontinued Part Number	Cap. (μ F)	Voltage (VDC)	Case Size (DxL)	Possible Alternative
NRWPC820M450V18x40F	82	450	18x40	NRB-SZ820M450V18X25F
NRWPC101M450V18x40F	100	450	18x40	NRWP101M450V18X40F
NRWPC121M450V18x45F	120	450	18x45	NRB-XZ121M450V18X35F

RADIAL LEADS, POLARIZED, NEW FURTHER REDUCED CASE SIZING,
FROM NRWS WIDE TEMPERATURE RANGE

REDUCED SIZE

NRWS → **NRWPC**
(today's standard) (reduced sizes)

**RoHS
Compliant**
includes all homogeneous materials



CHARACTERISTICS

*See Part Number System for Details

Rated Voltage Range		160 ~ 450VDC					
Capacitance Range		0.47 ~ 560 μ F					
Operating Temperature Range		-25°C ~ +105°C					
Capacitance Tolerance		$\pm 20\%$ (M)					
Maximum Leakage Current		0.01CV + 10 μ A (after 2 minutes)					
Max. Tan δ at 120Hz/20°C	W.V. (Vdc)	160	200	250	350	400	450
	S.V. (Vdc)	200	250	300	400	450	500
	Tan δ	0.15			0.20		
Low Temperature Stability Impedance Ratio @ 120Hz	W.V. (Vdc)	160	200	250	350	400	450
	Z-25°C/Z+20°C	5	5	5	6	7	7
Load Life Test @ 105°C	Duration	2,000 hours					
	Δ Capacitance	Within $\pm 20\%$ of initial measured value					
	Δ Tan δ	Less than 200% of specified value					
	Δ LC	Less than specified value					

PART NUMBERING SYSTEM

NRWPC 331 M 200V 10x12.5 TB F

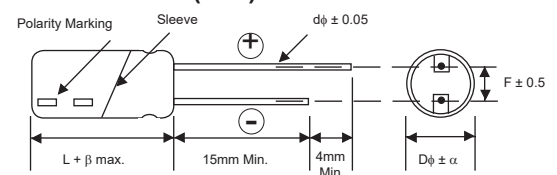
Series Capacitance Code Tolerance Code Rated Voltage Size (D ϕ xL) Tape and Box* RoHS Compliant

*see tape specification for details

LEAD SPACING AND DIAMETER (mm)

Case Dia. (D ϕ)	5	6.3	8	10	12.5	16	18
Lead Dia. (D ϕ)	0.5	0.5	0.6	0.6	0.6	0.8	0.8
Lead Spacing (F)	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Dim. α	0.5						1.0
Dim. B	1.5					2.0	

DIMENSIONS (mm)



Drawing is representative of parts as supplied in bulk or straight lead format, please see taping specification for details on taped format packaging.

PRECAUTIONS

Please review the notes on correct use, safety and precautions found at
<https://www.nicomp.com/resource/files/aluminum/AlumApplInfoCautions.pdf>
If in doubt or uncertainty, please review your specific application - process details with NIC's
technical support personnel: tpmg@nicomp.com



STANDARD VALUES, SPECIFICATIONS AND CASE SIZES (mm)

Part Number	Cap. (μ F)	W.V. (Vdc)	Dissipation Factor +20°C/120Hz	Ripple Current Rating (mA) +105°C/120Hz	Max. ESR (Ω) +20°C/120Hz	Load Life Hours @+105°C
NRWPCR47M160V5X11F	0.47	160	0.15	13	529.37	2,000
NRWPC1R0M160V5X11F	1.0		0.15	18	248.81	2,000
NRWPC2R2M160V6.3X11F	2.2		0.15	27	113.09	2,000
NRWPC3R3M160V6.3X11F	3.3		0.15	28	75.40	2,000
NRWPC4R7M160V6.3X11F	4.7		0.15	32	52.94	2,000
NRWPC6R8M160V8X12F	6.8		0.15	38	36.59	2,000
NRWPC100M160V8X12F	10		0.15	55	24.88	2,000
NRWPC150M160V10X12F	15		0.15	70	16.59	2,000
NRWPC220M160V10X20F	22		0.15	140	11.31	2,000
NRWPC330M160V10X20F	33		0.15	145	7.54	2,000
NRWPC470M160V12.5X20F	47		0.15	195	5.29	2,000
NRWPC560M160V12.5X20F	56		0.15	215	4.44	2,000
NRWPC680M160V12.5X25F	68		0.15	270	3.66	2,000
NRWPC820M160V12.5X25F	82		0.15	290	3.03	2,000
NRWPC101M160V16X25F	100		0.15	340	2.49	2,000
NRWPC121M160V16X25F	120		0.15	360	2.07	2,000
NRWPC151M160V16X32F	150		0.15	435	1.66	2,000
NRWPC181M160V16X36F	180		0.15	450	1.38	2,000
NRWPC221M160V16X36F	220		0.15	500	1.13	2,000
NRWPC331M160V18X36F	330		0.15	600	0.75	2,000
NRWPC471M160V18X45F	470		0.15	740	0.53	2,000
NRWPC561M160V18X51F	560		0.15	800	0.44	2,000
NRWPCR47M200V5X11F	0.47	200	0.15	13	529.37	2,000
NRWPC1R0M200V5X11F	1.0		0.15	15	248.81	2,000
NRWPC2R2M200V6.3X11F	2.2		0.15	27	113.09	2,000
NRWPC3R3M200V6.3X11F	3.3		0.15	28	75.40	2,000
NRWPC4R7M200V8X12F	4.7		0.15	36	52.94	2,000
NRWPC6R8M200V8X12F	6.8		0.15	40	36.59	2,000
NRWPC100M200V10X12F	10		0.15	60	24.88	2,000
NRWPC150M200V10X16F	15		0.15	75	16.59	2,000
NRWPC220M200V10X20F	22		0.15	150	11.31	2,000
NRWPC330M200V12.5X20F	33		0.15	160	7.54	2,000
NRWPC470M200V12.5X20F	47		0.15	195	5.29	2,000
NRWPC560M200V12.5X20F	56		0.15	215	4.44	2,000
NRWPC680M200V12.5X25F	68		0.15	250	3.66	2,000
NRWPC820M200V16X25F	82		0.15	270	3.03	2,000
NRWPC101M200V16X25F	100		0.15	320	2.49	2,000
NRWPC121M200V16X32F	120		0.15	340	2.07	2,000
NRWPC151M200V16X32F	150		0.15	360	1.66	2,000
NRWPC181M200V16X36F	180		0.15	400	1.38	2,000
NRWPC221M200V16X36F	220		0.15	500	1.13	2,000
NRWPC331M200V18X36F	330		0.15	610	0.75	2,000
NRWPC471M200V18X45F	470		0.15	750	0.53	2,000
NRWPC561M200V18X51F	560		0.15	805	0.44	2,000
NRWPCR47M250V5X11F	0.47	250	0.15	13	529.37	2,000
NRWPC1R0M250V6.3X11F	1.0		0.15	18	248.81	2,000
NRWPC2R2M250V6.3X11F	2.2		0.15	23	113.09	2,000
NRWPC3R3M250V8X12F	3.3		0.15	30	75.40	2,000
NRWPC4R7M250V8X12F	4.7		0.15	39	52.94	2,000
NRWPC6R8M250V10X12F	6.8		0.15	42	36.59	2,000
NRWPC100M250V10X16F	10		0.15	75	24.88	2,000
NRWPC150M250V10X16F	15		0.15	85	16.59	2,000
NRWPC220M250V12.5X20F	22		0.15	160	11.31	2,000
NRWPC330M250V12.5X20F	33		0.15	165	7.54	2,000
NRWPC470M250V12.5X25F	47		0.15	195	5.29	2,000
NRWPC560M250V12.5X25F	56		0.15	215	4.44	2,000
NRWPC680M250V16X25F	68		0.15	240	3.66	2,000
NRWPC820M250V16X25F	82		0.15	280	3.03	2,000
NRWPC101M250V16X32F	100		0.15	310	2.49	2,000
NRWPC121M250V16X32F	120		0.15	330	2.07	2,000
NRWPC151M250V16X36F	150		0.15	460	1.66	2,000



STANDARD VALUES, SPECIFICATIONS AND CASE SIZES (mm)

Part Number	Cap. (μF)	W.V. (Vdc)	Dissipation Factor +20°C/120Hz	Ripple Current Rating (mA) +105°C/120Hz	Max. ESR (Ω) +20°C/120Hz	Load Life Hours @+105°C
NRWPC181M250V18×36F	180	250	0.15	470	1.38	2,000
NRWPC221M250V18×36F	220		0.15	485	1.13	2,000
NRWPC331M250V18×45F	330		0.15	610	0.75	2,000
NRWPCR47M350V5×11F	0.47	350	0.2	11	705.83	2,000
NRWPC1R0M350V6.3×11F	1.0		0.2	15	331.74	2,000
NRWPC2R2M350V8×12F	2.2		0.2	23	150.79	2,000
NRWPC3R3M350V8×12F	3.3		0.2	30	100.53	2,000
NRWPC4R7M350V10×12F	4.7		0.2	40	70.58	2,000
NRWPC6R8M350V10×16F	6.8		0.2	42	48.79	2,000
NRWPC100M350V10×20F	10		0.2	70	33.17	2,000
NRWPC150M350V12.5×20F	15		0.2	140	22.12	2,000
NRWPC220M350V12.5×25F	22		0.2	145	15.08	2,000
NRWPC330M350V16×25F	33		0.2	165	10.05	2,000
NRWPC470M350V16×25F	47		0.2	200	7.06	2,000
NRWPC560M350V16×32F	56		0.2	230	5.92	2,000
NRWPC680M350V16×36F	68		0.2	240	4.88	2,000
NRWPC820M350V18×32F	82		0.2	280	4.05	2,000
NRWPC101M350V18×32F	100		0.2	320	3.32	2,000
NRWPC121M350V18×36F	120		0.2	365	2.76	2,000
NRWPC151M350V18×40F	150		0.2	400	2.21	2,000
NRWPC181M350V18×45F	180		0.2	460	1.84	2,000
NRWPCR47M400V6.3×11F	0.47	400	0.2	15	705.83	2,000
NRWPC1R0M400V6.3×11F	1.0		0.2	14	331.74	2,000
NRWPC2R2M400V8×12F	2.2		0.2	25	150.79	2,000
NRWPC3R3M400V8×12F	3.3		0.2	30	100.53	2,000
NRWPC4R7M400V10×16F	4.7		0.2	42	70.58	2,000
NRWPC6R8M400V10×16F	6.8		0.2	45	48.79	2,000
NRWPC100M400V10×20F	10		0.2	70	33.17	2,000
NRWPC150M400V12.5×20F	15		0.2	90	22.12	2,000
NRWPC220M400V12.5×25F	22		0.2	140	15.08	2,000
NRWPC330M400V16×25F	33		0.2	165	10.05	2,000
NRWPC470M400V16×25F	47		0.2	200	7.06	2,000
NRWPC560M400V16×32F	56		0.2	210	5.92	2,000
NRWPC680M400V16×36F	68		0.2	240	4.88	2,000
NRWPC820M400V18×32F	82		0.2	270	4.05	2,000
NRWPC101M400V18×32F	100		0.2	310	3.32	2,000
NRWPC121M400V18×36F	120		0.2	340	2.76	2,000
NRWPC151M400V18×40F	150		0.2	375	2.21	2,000
NRWPC181M400V18×45F	180		0.2	410	1.84	2,000
NRWPCR47M450V6.3×11F	0.47	450	0.2	16	705.83	2,000
NRWPC1R0M450V8×12F	1.0		0.2	21	331.74	2,000
NRWPC2R2M450V8×12F	2.2		0.2	22	150.79	2,000
NRWPC3R3M450V10×12F	3.3		0.2	30	100.53	2,000
NRWPC4R7M450V10×16F	4.7		0.2	36	70.58	2,000
NRWPC6R8M450V10×20F	6.8		0.2	40	48.79	2,000
NRWPC100M450V12.5×20F	10		0.2	75	33.17	2,000
NRWPC150M450V12.5×25F	15		0.2	80	22.12	2,000
NRWPC220M450V16×25F	22		0.2	105	15.08	2,000
NRWPC330M450V16×32F	33		0.2	130	10.05	2,000
NRWPC470M450V18×32F	47		0.2	160	7.06	2,000
NRWPC560M450V18×32F	56		0.2	170	5.92	2,000
NRWPC680M450V18×36F	68		0.2	190	4.88	2,000
NRWPC820M450V18×40F	82		0.2	200	4.05	2,000
NRWPC101M450V18×40F	100		0.2	215	3.32	2,000
NRWPC121M450V18×45F	120		0.2	230	2.76	2,000

RIPPLE CURRENT FREQUENCY CORRECTION FACTOR

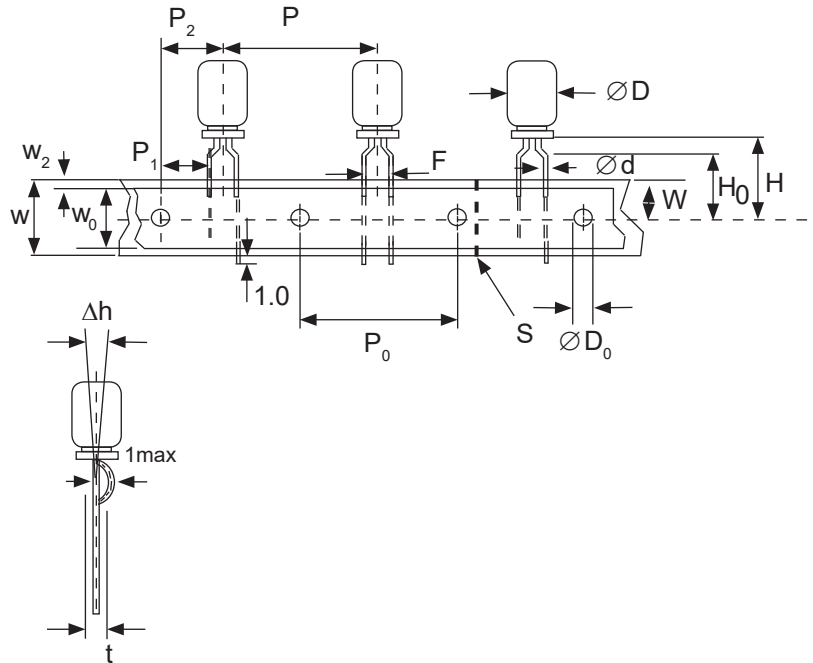
Voltage	Cap. (μF)	60Hz	120Hz	1KHz	10KHz	100KHz
160 ~ 250V	0.47 ~ 68	0.75	1.00	1.57	2.00	2.00
	100 ~ 560	0.80	1.00	1.34	1.40	1.50
350 ~ 450V	0.47 ~ 180	0.80	1.00	1.40	1.40	1.40



STANDARD RADIAL TAPING (5mm LEAD SPACING, FORMED LEADS) TB

Taping Dimensions (mm)

Case Dia. (D ϕ)	5	6.3	8
Case Size	5x11	6.3x11	8x12
Dim.			
d $\phi \pm 0.05$	0.5	0.5	0.6
H ± 0.75	18.5	18.5	20.0
F +0.8 ~ -0.2	5.0 -0.2 ~ +0.8		
P	12.7 ± 1.0		
P ₀	12.7 ± 0.2		
P ₁	3.85 ± 0.5 (at end of tape)		
P ₂	6.35 ± 1.0		
W	18.0 ± 0.5		
W ₀	11.5 min.		
W ₁	9.0 ± 0.5		
W ₂	0 ~ 2.5		
H ₀	16.0 ± 0.5		
l	1.0 max.		
D ₀ ϕ	4.0 ± 0.2		
Δh	0 ± 1.0 (at top of can)		
t	0.7 ± 0.2 (not including lead)		



STANDARD RADIAL TAPING (5mm LEAD SPACING, STRAIGHT LEADS) TB

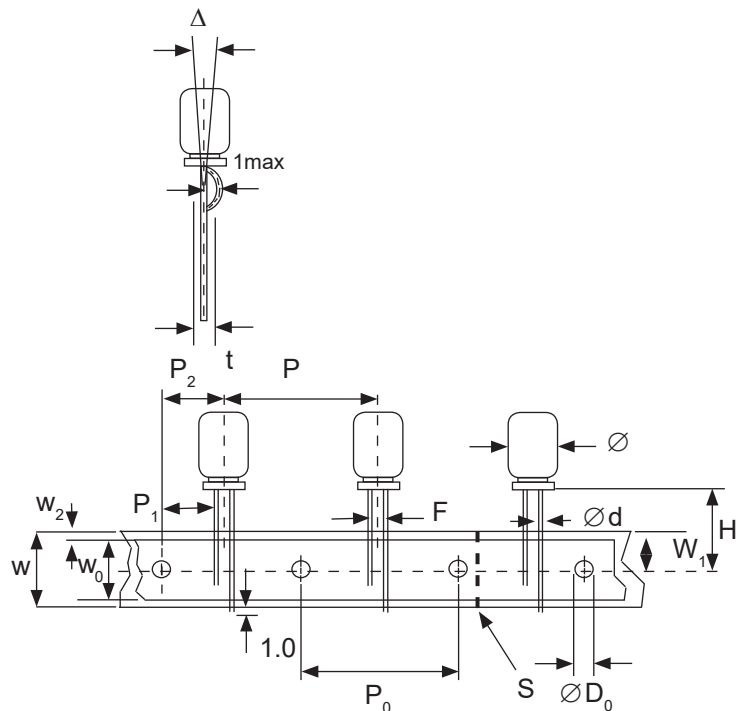
Taping Dimensions (mm)

Case Dia. (D ϕ)	10	12.5
Case Size	All	All
Dim.		
d $\phi \pm 0.05$	0.6	0.6
H ± 0.75	19.0	19.0
F +0.8 ~ -0.2	5.0	5.0
P ± 1.0	25.4*	
P ₀	12.7 ± 0.2	
P ₁	3.85	
P ₂	6.35 ± 1.0	
W	18.0 ± 0.5	
W ₀	11.5 min	
W ₁	9.0 ± 0.5	
W ₂	0 ~ 2.5	
H ₀	16.0 ± 0.5	
l	1.0 max.	
D ₀ ϕ	4.0 ± 0.2	
Δh	0 ± 1.0 (at top of can)	
t	0.7 ± 0.2 (not including lead)	

*Optional Taping Specifications

10mm diameter available with P dim. = 12.7mm
(P/N Suffix: TB12.7MMP)

12.5mm diameter available with P dim. = 15mm, P₁ = 5.0mm,
P₀ = 15.0mm & P₂ = 7.5mm (P/N Suffix: TB15MMP)

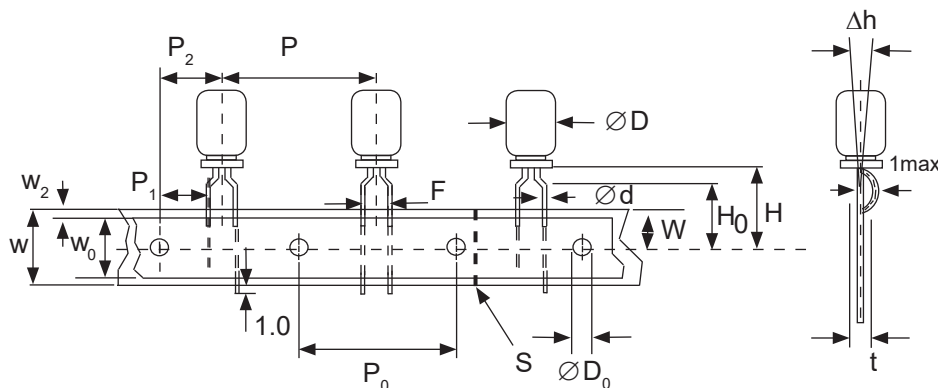


NOTE: ANODE (+) LEAD FEEDS OFF FIRST.
FOR OPTION OF NEGATIVE (-) LEAD FIRST,
SPECIFY "TBN".



Taping Dimensions (mm)

Case Dia. (D ϕ)	5
Case Size Dim.	5x11
d ϕ ± 0.05	0.5
H ± 0.75	18.5
H ₀ ± 0.5	-
F	2.5 -0.2 ~ +0.8
P	12.7 ± 1.0
P ₀	12.7 ± 0.2
P ₁	5.1 ± 0.5
P ₂	6.35 ± 1.0
W	18.0 ± 0.5
W ₀	11.5 min.
W ₁	9.0 ± 0.5
W ₂	0 ~ 1.5
l	1.0 max.
D ₀ ϕ	4.0 ± 0.2
Δh	0 ± 1.0
t	0.7 ± 0.2

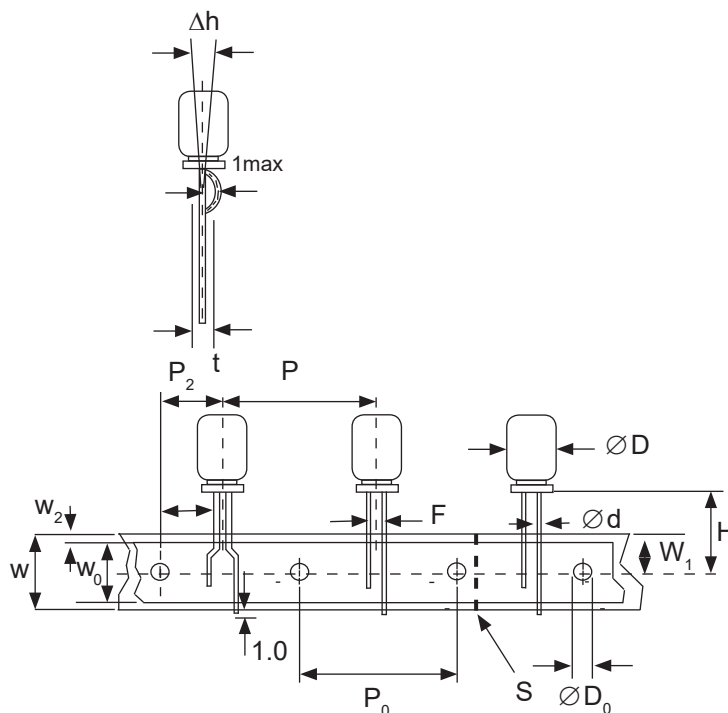


SPECIAL STRAIGHT LEAD TAPING TBST*

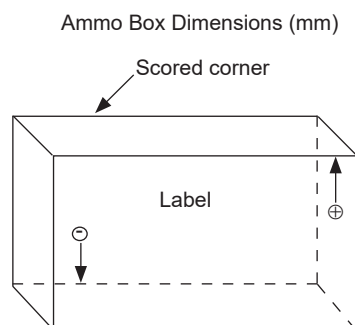
Taping Dimensions (mm)

Case Dia. (D ϕ)	5	6.3	8
Case Size Dim.	5x11	6.3x11	8x12
d ϕ ± 0.05	0.5	0.5	0.6
H ± 0.75	18.5	18.5	20.0
F +0.8 ~ -0.2	2.0	2.5	3.5
P ± 1.0	12.7 ± 0.2		
P ₀	12.7 ± 0.2		
P ₁	5.1	5.1	4.6
P ₂	6.35 ± 1.0		
W	18.0 ± 0.5		
W ₀	11.5 min.		
W ₁	9.0 ± 0.5		
W ₂	0 ~ 2.5		
H ₀	16.0 ± 0.5		
l	1.0 max.		
D ₀ ϕ	4.0 ± 0.2		
Δh	0 ± 1.0 (at top of can)		
t	0.7 ± 0.2 (not including lead)		

* Parts with 4mm diameter are taped with a slight flare in the lead and a 2.0mm lead-space.



*Straight leads will extend from the based of the component to the edge of the carrier. The section of lead below the adhesive tape may be straight or formed.



Ammo Box (Tape & Box) TB, TBF1, TBST

Box Quantity

Case Dia (D ϕ) or Case Size	Q'ty per Box (pcs)
5x11	2,000
6.3x11	2,000
8x12	1,000
10x12	500
10x20	500
12.5x20	500
12.5x25	500