

Miniature Aluminum Electrolytic Capacitors

NRWP Series

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

**New Expanded
High Voltage
(Up to 450V)**



EXTENDED TEMPERATURE
NRWS → **NRWP**
(today's standard) (reduced sizes)

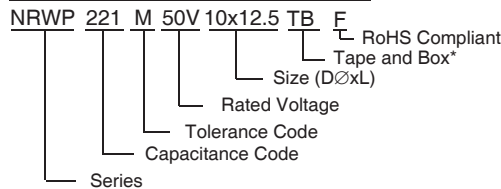
**RoHS
Compliant**
includes all homogeneous materials

*See Part Number System for Details

CHARACTERISTICS

Rated Voltage Range		6.3 ~ 450VDC							
Capacitance Range		0.47 ~ 33,000 μ F							
Operating Temperature Range	6.3 ~ 100Vdc	-55°C ~ +105°C							
	160 ~ 400Vdc	-40°C ~ +105°C							
	450Vdc	-25°C ~ +105°C							
Capacitance Tolerance		$\pm 20\%$ (M)							
Maximum Leakage Current	6.3 ~ 100Vdc	0.01CV or 3 μ A whichever is greater (after 2 minutes)							
	160 ~ 450Vdc	For CV's ≤ 1000 LC = 0.1CV + 40 μ A (after 1 minute), 0.03CV + 15 μ A (after 5 minutes)							
		For CV's > 1000 LC = 0.04CV + 100 μ A (after 1 minute), 0.02CV + 25 μ A (after 5 minutes)							
Max. Tan δ at 120Hz/20°C	W.V. (Vdc)	6.3	10	16	25	35	50	63	100
	S.V. (Vdc)	8	13	20	32	44	63	79	125
All Part Numbers		See specifications tables							
Low Temperature Stability Impedance Ratio @ 120Hz	W.V. (Vdc)	6.3	10	16	25	35	50	63	100
	Z-25°C/Z+20°C	5	4	3	2	2	2	2	2
	Z-40°C/Z+20°C	10	8	6	4	3	3	3	3
	W.V. (Vdc)	160	200	250	350	400	450	N/A	
	Z-25°C/Z+20°C	3	3	4	6	6	7		
	Z-40°C/Z+20°C	4	4	8	8	10	-		
Load Life Test @ 105°C	Duration	$\phi D \leq 8$: 1,000 hours, $\phi D \geq 10$: 2,000 hours							
	Δ Capacitance	Within $\pm 25\%$ of initial measured value							
	Δ Tan δ	Less than 200% of specified value							
	Δ LC	Less than specified value							

PART NUMBERING SYSTEM

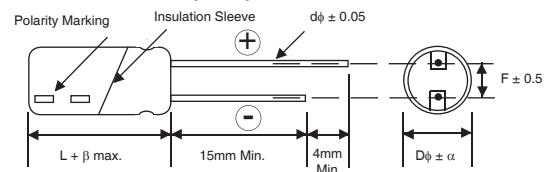


*see tape specification for details

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	0.5	0.5	0.5	0.5	0.5	0.5

DIMENSIONS (mm)



$\beta = D < 16\text{mm} = 1.5\text{mm}$, $L \geq 16\text{mm} = 2.0\text{mm}$
 β for all 160V ~ 450V parts = 2.0mm

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



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
NRWP101M6.3V5X11F	100	6.3	0.28	96	4.64	1,000
NRWP221M6.3V5X11F	220		0.28	160	2.11	1,000
NRWP331M6.3V6.3X11F	330		0.28	210	1.41	1,000
NRWP471M6.3V6.3X11F	470		0.28	275	0.99	1,000
NRWP681M6.3V6.3X11F	680		0.28	285	0.68	1,000
NRWP102M6.3V8X11.5F	1,000		0.28	460	0.46	1,000
NRWP222M6.3V10X16F	2,200		0.30	775	0.23	2,000
NRWP332M6.3V10X20F	3,300		0.32	985	0.16	2,000
NRWP472M6.3V12.5X20F	4,700		0.34	1150	0.12	2,000
NRWP682M6.3V12.5X25F	6,800		0.38	1480	0.09	2,000
NRWP103M6.3V16X25F	10,000		0.46	1700	0.08	2,000
NRWP153M6.3V16X31.5F	15,000		0.56	2090	0.06	2,000
NRWP223M6.3V18X31.5F	22,000		0.70	2280	0.05	2,000
NRWP333M6.3V18X40F	33,000		0.92	2350	0.05	2,000
NRWP101M10V5X11F	100	10	0.24	105	3.98	1,000
NRWP221M10V5X11F	220		0.24	165	1.81	1,000
NRWP331M10V6.3X11F	330		0.24	235	1.21	1,000
NRWP471M10V6.3X11F	470		0.24	295	0.85	1,000
NRWP681M10V8X11.5F	680		0.24	430	0.59	1,000
NRWP102M10V8X11.5F	1,000		0.24	500	0.40	1,000
NRWP222M10V10X16F	2,200		0.26	860	0.20	2,000
NRWP332M10V10X20F	3,300		0.28	1100	0.14	2,000
NRWP472M10V12.5X20F	4,700		0.30	1350	0.11	2,000
NRWP682M10V16X25F	6,800		0.34	1700	0.08	2,000
NRWP103M10V16X25F	10,000		0.42	1950	0.07	2,000
NRWP153M10V16X35.5F	15,000		0.52	2090	0.06	2,000
NRWP223M10V18X35.5F	22,000		0.66	2180	0.05	2,000
NRWP470M16V5X11F	47		16	0.20	80	7.06
NRWP101M16V5X11F	100	0.20		130	3.32	1,000
NRWP221M16V6.3X11F	220	0.20		220	1.51	1,000
NRWP331M16V6.3X11F	330	0.20		270	1.01	1,000
NRWP471M16V8X11.5F	470	0.20		375	0.71	1,000
NRWP681M16V8X11.5F	680	0.20		480	0.49	1,000
NRWP102M16V10X12.5F	1,000	0.20		640	0.33	2,000
NRWP222M16V10X20F	2,200	0.22		1050	0.17	2,000
NRWP332M16V12.5X20F	3,300	0.24		1300	0.12	2,000
NRWP472M16V12.5X25F	4,700	0.26		1650	0.09	2,000
NRWP682M16V16X25F	6,800	0.30		1900	0.07	2,000
NRWP103M16V16X31.5F	10,000	0.38		1950	0.06	2,000
NRWP153M16V18X35.5F	15,000	0.48		2070	0.05	2,000
NRWP330M25V5X11F	33	25		0.16	69	8.04
NRWP470M25V5X11F	47		0.16	84	5.65	1,000
NRWP101M25V5X11F	100		0.16	135	2.65	1,000
NRWP221M25V6.3X11F	220		0.16	240	1.21	1,000
NRWP331M25V8X11.5F	330		0.16	335	0.80	1,000
NRWP471M25V8X11.5F	470		0.16	440	0.56	1,000
NRWP681M25V10X12.5F	680		0.16	630	0.39	2,000
NRWP102M25V10X16F	1,000		0.16	740	0.27	2,000
NRWP222M25V12.5X20F	2,200		0.18	1090	0.14	2,000
NRWP332M25V16X25F	3,300		0.20	1500	0.10	2,000
NRWP472M25V16X25F	4,700		0.22	1800	0.08	2,000
NRWP682M25V16X35.5F	6,800		0.26	1910	0.06	2,000
NRWP103M25V18X35.5F	10,000		0.34	2050	0.06	2,000
NRWP220M35V5X11F	22		35	0.14	64	10.56
NRWP330M35V5X11F	33	0.14		77	7.04	1,000
NRWP470M35V5X11F	47	0.14		100	4.94	1,000
NRWP101M35V6.3X11F	100	0.14		170	2.32	1,000
NRWP221M35V8X11.5F	220	0.14		300	1.06	1,000
NRWP331M35V10X12.5F	330	0.14		400	0.70	2,000
NRWP471M35V10X12.5F	470	0.14		525	0.49	2,000
NRWP681M35V10X16F	680	0.14		760	0.34	2,000

Represents New Value



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	
NRWP102M35V10X20F	1,000	35	0.14	865	0.23	2,000	
NRWP222M35V16X25F	2,200		0.16	1370	0.12	2,000	
NRWP332M35V16X25F	3,300		0.18	1680	0.09	2,000	
NRWP472M35V16X35.5F	4,700		0.20	1870	0.07	2,000	
NRWP682M35V18X35.5F	6,800		0.24	1920	0.06	2,000	
NRWPR47M50V5X11F	0.47	50	0.12	7	423.50	1,000	
NRWP1R0M50V5X11F	1.0		0.12	13	199.04	1,000	
NRWP2R2M50V5X11F	2.2		0.12	20	90.47	1,000	
NRWP3R3M50V5X11F	3.3		0.12	25	60.32	1,000	
NRWP4R7M50V5X11F	4.7		0.12	32	42.35	1,000	
NRWP100M50V5X11F	10		0.12	47	19.90	1,000	
NRWP220M50V5X11F	22		0.12	70	9.05	1,000	
NRWP330M50V5X11F	33		0.12	94	6.03	1,000	
NRWP470M50V6.3X11F	47		0.12	115	4.23	1,000	
NRWP101M50V8X11.5F	100		0.12	200	1.99	1,000	
NRWP221M50V10X12.5F	220		0.12	360	0.90	2,000	
NRWP331M50V10X16F	330		0.12	470	0.60	2,000	
NRWP471M50V10X20F	470		0.12	600	0.42	2,000	
NRWP681M50V12.5X20F	680		0.12	980	0.29	2,000	
NRWP102M50V12.5X25F	1,000		0.12	1060	0.20	2,000	
NRWP222M50V16X31.5F	2,200		0.14	1600	0.11	2,000	
NRWP332M50V18X35.5F	3,300		0.16	1780	0.08	2,000	
NRWP100M63V5X11F	10		63	0.10	48	16.59	1,000
NRWP220M63V5X11F	22			0.10	80	7.54	1,000
NRWP330M63V6.3X11F	33	0.10		100	5.03	1,000	
NRWP470M63V6.3X11F	47	0.10		140	3.53	1,000	
NRWP101M63V8x11.5F	100	0.10		230	1.66	1,000	
NRWP221M63V10x16F	220	0.10		390	0.75	2,000	
NRWP331M63V10x20F	330	0.10		540	0.50	2,000	
NRWP471M63V12.5x20F	470	0.10		700	0.35	2,000	
NRWP681M63V12.5x25F	680	0.10		800	0.24	2,000	
NRWP102M63V16x25F	1,000	0.10		1200	0.17	2,000	
NRWP222M63V18x31.5F	2,200	0.12		1400	0.09	2,000	
NRWPR47M100V5X11F	0.47	100		0.08	8	282.33	1,000
NRWP1R0M100V5X11F	1.0			0.08	15	132.70	1,000
NRWP2R2M100V5X11F	2.2		0.08	21	60.32	1,000	
NRWP3R3M100V5X11F	3.3		0.08	30	40.21	1,000	
NRWP4R7M100V5X11F	4.7		0.08	35	28.23	1,000	
NRWP100M100V5X11F	10		0.08	60	13.27	1,000	
NRWP220M100V6.3X11F	22		0.08	98	6.03	1,000	
NRWP330M100V8x11.5F	33		0.08	140	4.02	1,000	
NRWP470M100V8x11.5F	47		0.08	185	2.82	1,000	
NRWP101M100V10x16F	100		0.08	290	1.33	2,000	
NRWP221M100V12.5x20F	220		0.08	560	0.60	2,000	
NRWP331M100V12.5x25F	330		0.08	690	0.40	2,000	
NRWP471M100V16x25F	470		0.08	880	0.28	2,000	
NRWP681M100V16x31.5F	680		0.08	900	0.20	2,000	
NRWP102M100V18x35.5F	1,000		0.08	985	0.13	2,000	
NRWP4R7M160V6.3X11F	4.7		160	0.20	43	70.58	1,000
NRWP100M160V8X11.5F	10			0.20	77	33.17	1,000
NRWP220M160V10X12.5F	22			0.20	92	15.08	2,000
NRWP330M160V10X16F	33			0.20	125	10.05	2,000
NRWP470M160V10X20F	47	0.20		150	7.06	2,000	
NRWP101M160V12.5X25F	100	0.20		320	3.32	2,000	
NRWP221M160V16X31.5F	220	0.20		410	1.51	2,000	
NRWP331M160V18X31.5F	330	0.20		570	1.01	2,000	
NRWP471M160V18X40F	470	0.20		855	0.71	2,000	

Represents New Value

PRECAUTIONS

Please review the notes on correct use, safety and precautions found on pages T10 & T11 of NIC's Electrolytic Capacitor catalog.
 Also found at www.niccomp.com/precautions
 If in doubt or uncertainty, please review your specific application - process details with NIC's technical support personnel: tpmg@niccomp.com



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	
NRWP3R3M200V6.3X11F	3.3	200	0.20	36	100.53	1,000	
NRWP4R7M200V6.3X11F	4.7		0.20	40	70.58	1,000	
NRWP100M200V8X11.5F	10		0.20	57	33.17	1,000	
NRWP220M200V10X16F	22		0.20	105	15.08	2,000	
NRWP330M200V10X20F	33		0.20	140	10.05	2,000	
NRWP470M200V10X20F	47		0.20	195	7.06	2,000	
NRWP101M200V16X25F	100		0.20	340	3.32	2,000	
NRWP221M200V16X35.5F	220		0.20	580	1.51	2,000	
NRWP331M200V18X40F	330		0.20	675	1.01	2,000	
NRWPR47M250V6.3X11F	0.47	250	0.20	8	705.83	1,000	
NRWP1R0M250V6.3X11F	1.0		0.20	16	331.74	1,000	
NRWP2R2M250V6.3X11F	2.2		0.20	30	150.79	1,000	
NRWP3R3M250V6.3X11F	3.3		0.20	30	100.53	1,000	
NRWP4R7M250V8X11.5F	4.7		0.20	45	70.58	2,000	
NRWP100M250V10X12.5F	10		0.20	90	33.17	2,000	
NRWP220M250V10X16F	22		0.20	105	15.08	2,000	
NRWP330M250V10X20F	33		0.20	140	10.05	2,000	
NRWP470M250V12.5X20F	47		0.20	190	7.06	2,000	
NRWP101M250V16X25F	100		0.20	310	3.32	2,000	
NRWP221M250V18X35.5F	220		0.20	485	1.51	2,000	
NRWPR47M350V6.3X11F	0.47		350	0.20	8	705.83	1,000
NRWP1R0M350V6.3X11F	1.0			0.20	16	331.74	1,000
NRWP2R2M350V6.3X11F	2.2	0.20		25	150.79	1,000	
NRWP3R3M350V8X11.5F	3.3	0.20		30	100.53	1,000	
NRWP4R7M350V8X11.5F	4.7	0.20		45	70.58	1,000	
NRWP100M350V10X16F	10	0.20		95	33.17	2,000	
NRWP220M350V12.5X20F	22	0.20		175	15.08	2,000	
NRWP330M350V12.5X25F	33	0.20		220	10.05	2,000	
NRWP470M350V16X25F	47	0.20		260	7.06	2,000	
NRWP101M350V18X31.5F	100	0.20		370	3.32	2,000	
NRWP1R0M400V6.3X11F	1.0	400		0.25	16	414.68	1,000
NRWP2R2M400V8X11.5F	2.2			0.25	31	188.49	1,000
NRWP3R3M400V8X11.5F	3.3			0.25	34	125.66	1,000
NRWP4R7M400V10X12.5F	4.7		0.25	42	88.23	2,000	
NRWP100M400V10X16F	10		0.25	64	41.47	2,000	
NRWP220M400V12.5X20F	22		0.25	140	18.85	2,000	
NRWP330M400V16X25F	33		0.25	170	12.57	2,000	
NRWP470M400V16X25F	47		0.25	200	8.82	2,000	
NRWP101M400V18X35.5F	100		0.25	310	4.15	2,000	
NRWP1R0M450V6.3X11F	1.0	450	0.25	15	414.68	1,000	
NRWP2R2M450V8X11.5F	2.2		0.25	20	188.49	1,000	
NRWP3R3M450V10X12.5F	3.3		0.25	33	125.66	2,000	
NRWP4R7M450V10X12.5F	4.7		0.25	35	88.23	2,000	
NRWP100M450V10X20F	10		0.25	37	41.47	2,000	
NRWP220M450V12.5X25F	22		0.25	100	18.85	2,000	
NRWP330M450V16X25F	33		0.25	125	12.57	2,000	
NRWP470M450V16X31.5F	47		0.25	155	8.82	2,000	
NRWP101M450V18X40F	100		0.25	200	4.15	2,000	

Represents New Value

RIPPLE CURRENT FREQUENCY CORRECTION FACTOR

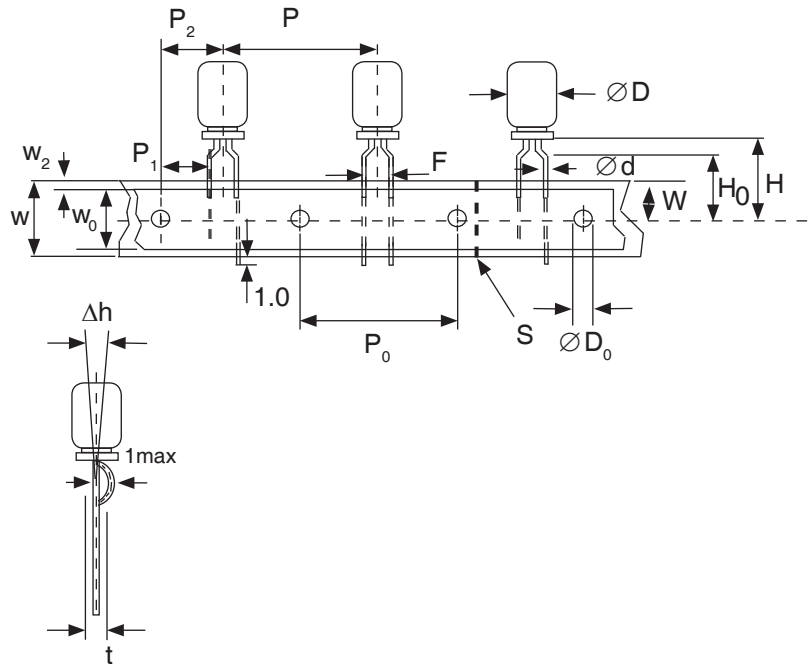
Cap. (μF)	60Hz	120Hz	500Hz	1KHz	10KHz ~ up
0.47 ~ 1.0	0.50	1.00	1.20	1.30	1.50
2.2 ~ 4.7	0.65	1.00	1.20	1.30	1.50
10 ~ 47	0.80	1.00	1.20	1.30	1.50
100 ~ 1,000	0.80	1.00	1.10	1.15	1.20
2,200 ~ 33,000	0.80	1.00	1.05	1.10	1.15



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

Taping Dimensions (mm)

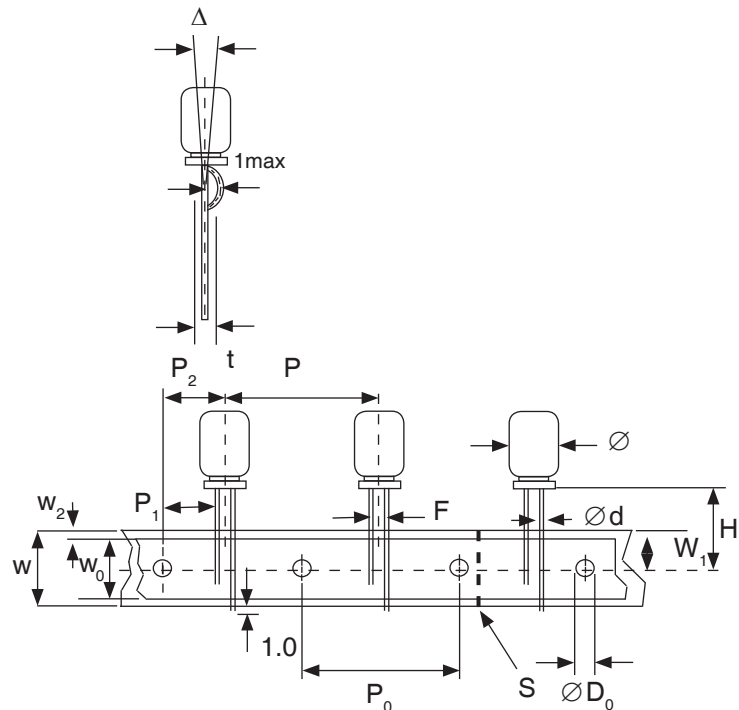
Case Dia. (D ϕ)	5	6.3	8
Case Size Dim.	5x11	6.3x11	8x11.5
d ϕ \pm 0.05	0.5	0.5	0.6
H \pm 0.75	18.5	18.5	20.0
F $+0.8 \sim -0.2$	5.0 $-0.2 \sim +0.8$		
P	12.7 \pm 1.0		
P ₀	12.7 \pm 0.2		
P ₁	3.85 \pm 0.5 (at end of tape)		
P ₂	6.35 \pm 1.0		
W	18.0 \pm 0.5		
W ₀	11.5 min.		
W ₁	9.0 \pm 0.5		
W ₂	0 \sim 2.5		
H ₀	16.0 \pm 0.5		
l	1.0 max.		
D ₀ ϕ	4.0 \pm 0.2		
Δ h	0 \pm 1.0 (at top of can)		
t	0.7 \pm 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 Dim.	All	All
d ϕ \pm 0.05	0.6	0.6
H \pm 0.75	19.0	19.0
F $+0.8 \sim -0.2$	5.0	5.0
P \pm 1.0	25.4*	
P ₀	12.7 \pm 0.2	
P ₁	3.85	
P ₂	6.35 \pm 1.0	
W	18.0 \pm 0.5	
W ₀	11.5 min	
W ₁	9.0 \pm 0.5	
W ₂	0 \sim 2.5	
H ₀	16.0 \pm 0.5	
l	1.0 max.	
D ₀ ϕ	4.0 \pm 0.2	
Δ h	0 \pm 1.0 (at top of can)	
t	0.7 \pm 0.2 (not including lead)	



*Optional Taping Specifications

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

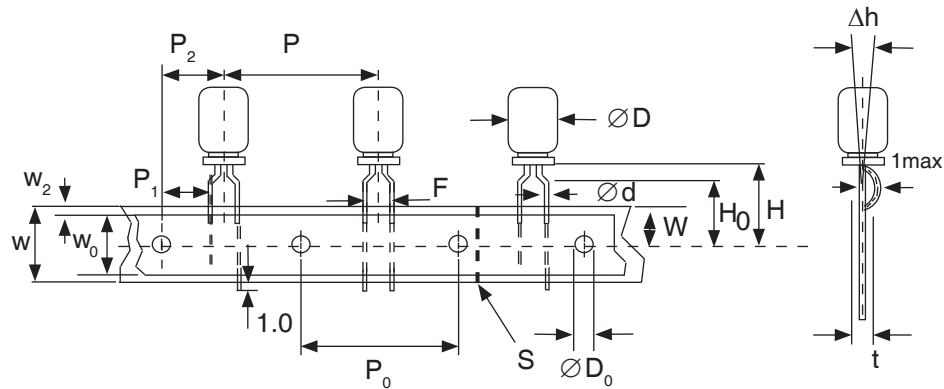
12.5mm diameter available with P dim. = 15mm, P₁ = 5.0mm,
P₀ = 15.0mm & P₂ = 7.5mm (P/N Suffix: TB15MMP)

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

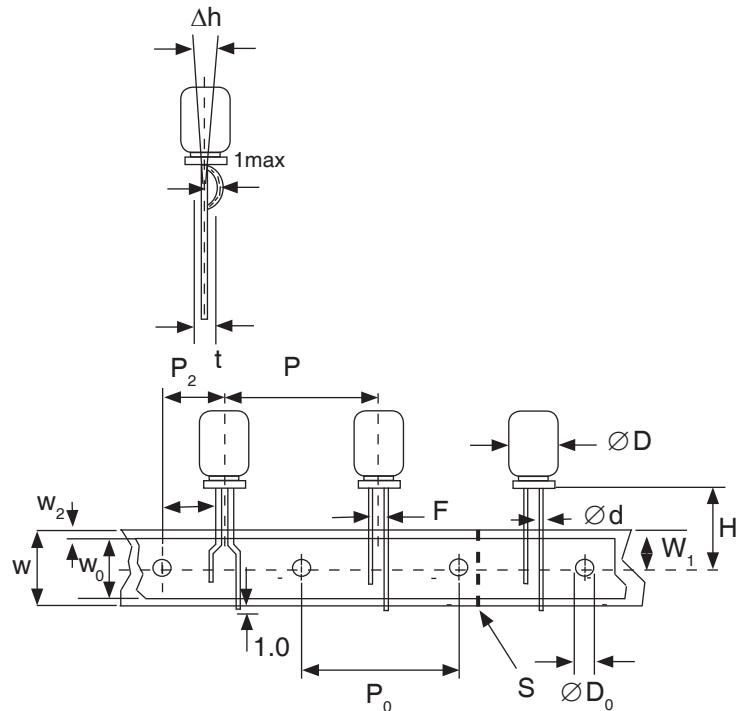


SPECIAL STRAIGHT LEAD TAPING TBST*

Taping Dimensions (mm)

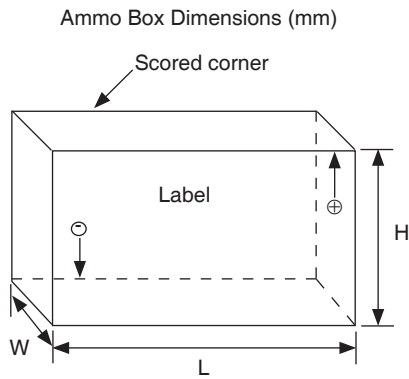
Case Dia. (D ϕ)	5	6.3	8
Case Size Dim.	5x11	6.3x11	8x11.5
d ϕ ± 0.05	0.5	0.5	0.6
H ± 0.75	18.5	18.5	20.0
F +0.8 ~ -0.2	2.0	2.5	3.5
P ± 1.0	12.7 ± 0.2		
P ₀	12.7 ± 0.2		
P ₁	5.1	5.1	4.6
P ₂	6.35 ± 1.0		
W	18.0 ± 0.5		
W ₀	11.5 min.		
W ₁	9.0 ± 0.5		
W ₂	0 ~ 2.5		
H ₀	16.0 ± 0.5		
l	1.0 max.		
D ₀ ϕ	4.0 ± 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

Size of box and component quantity

Case Dia (D ϕ) or Case Size	Qty per Box (pcs)	Dim. L	Dim. H	Dim. W
5x11	2,000	340	255	55
6.3x11	2,000	331	280	48
8x11.5	1,000	335	235	53
10x12.5*	500	335	190	53
10x16*	500	335	300	53
10x20*	500	335	300	55
12.x20*	500	335	300	55
12.5x25*	500	335	300	61

*Special Taping Consult Factory For Availability

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