T510 Automotive Grade Multiple Anode Low ESR MnO,



Overview

The low ESR, surge-robust T510 is designed for demanding applications that require high surge current and high ripple current capability. This series builds upon the proven capabilities of our industrial grade tantalum chip capacitors, to offer several advantages such as low ESR, high ripple current capability, excellent capacitance

stability, and improved resistance to high in-rush currents. These benefits are achieved though the utilization of multiple anodes, as well as high-stress, low impedance electrical conditioning performed prior to screening. This series is classified as MSL (Moisture Sensitivity Level) 1 under J-STD-020: unlimited floor life time at ≤ 30°C/85% RH.

Benefits

- Complies with AEC-Q200
- Meets or exceeds EIA standard 535BAAC
- Tape & Reel standard packaging per EIA 481
- High surge current capability
- Optional gold-plated terminations
- High ripple current capability
- 100% surge current test
- 100% steady-state accelerated aging
- Case sizes E and X
- ESR as low as 18 mΩ



Applications

Typical applications include decoupling and filtering in automotive end applications, such as DC/DC converters, portable electronics, telecommunications, and control units requiring high ripple current capability.

Environmental Compliance

RoHS compliant (6/6) according to Directive 2002/95/EC when ordered with 100% Sn solder or gold-plated.

- · Halogen-free
- Epoxy compliant with UL94 V-0
- Molded Epoxy complies for outgassing testing under ASTM E 595.

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Built Into Tomorrow



K-SIM

For a detailed analysis of specific part numbers, please visit ksim.kemet.com to access KEMET's K-SIM software. KEMET K-SIM is designed to simulate behavior of components with respect to frequency, ambient temperature, and DC bias levels.

Ordering Information

Т	510	X	477	M	006	A	Т	A030	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/ Design	Termination Finish	ESR	Packaging (C-Spec)
T = Tantalum	Multiple Anode Low ESR	E X	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	004 = 4 006 = 6.3 010 = 10 016 = 16 020 = 20 025 = 25 035 = 35 050 = 50	A = N/A	T = 100% Matte Tin (Sn)-plated H = Standard Solder Coated (SnPb 5% Pb minimum) G = Gold-Plated (A, B, C, D, X only)	A = AUTO grade product 030 = Maximum ESR in m Ω at room temperature (30 m Ω)	Blank = 7" Reel 7280 = 13" Reel

Performance Characteristics

Item	Performance Characteristics
Operating Temperature	-55°C to 125°C
Rated Capacitance Range	10 – 1,000 μF at 120 Hz/25°C
Capacitance Tolerance	K Tolerance (10%), M Tolerance (20%)
Rated Voltage Range	4 – 50 V
DF (120 Hz)	Refer to Part Number Electrical Specification Table
ESR (100 kHz)	Refer to Part Number Electrical Specification Table
Leakage Current	≤ 0.01 CV (µA) at rated voltage after 5 minutes



Qualification

Test	Condition			Charac	teristics		
		,	Δ C/C	Within ±109	6 of initial valu	e	
Endurance	85°C at rated voltage, 2,000 hours	DF	Within initial limits				
Endurance	125°C at 2/3 rated voltage, 2,000 hours		DCL	Within 1.25	x initial limit		
			ESR	Within initia	al limits		
		,	Δ C/C	Within ±109	6 of initial valu	e	
Storago Life	125°C at 0 volta, 2 000 hours		DF	Within initia	al limits		
Storage Life	125°C at 0 volts, 2,000 hours		DCL	Within 1.25	x initial limit		
			ESR	Within initia	al limits		
		,	Δ C/C	Within ±5% of initial value			
Thermal Shock	MIL-STD-202, Method 107, Condition B, mo	unted,	DF	Within initial limits			
Thermai Shock	-55C° to 125° C, 1,000 cycles	DCL	Within 1.25	x initial limit			
			ESR	Within initial limits			
			+25°C	-55°C	+85°C	+125°C	
Temperature Stability	Extreme temperature exposure at a succession of continuous steps at +25°C,	ΔC/C	IL*	±10%	±10%	±20%	
reinperature Stability	-55°C, +25°C, +85°C, +125°C, +25°C	DF	IL	IL	1.5 x IL	1.5 x IL	
		DCL	IL	n/a	10 x IL	12 x IL	
			Δ C/C	Within ±5%	of initial value		
Surge Voltage	85°C, 1.32 x rated voltage 1,000 cycles		DF	Within initia	al limits		
Surge voltage	(125°C, 1.2 x rated voltage)		DCL	Within initial limits			
		ESR	Within initial limits				
	MIL-STD-202, Method 213, Condition I, 100	G peak	Δ C/C	Within ±10% of initial value			
Mechanical Shock/ Vibration	MIL-STD-202, Method 204, Condition D, 10		DF	Within initial limits			
	2,000 Hz, 20 G peak		DCL	Within initia	al limits		

^{*}IL = Initial limit

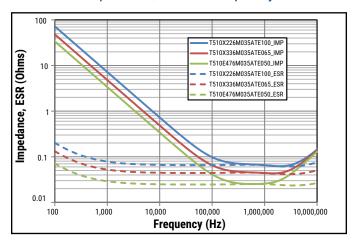
Certification

KEMET's Internal Qualification Plan for this Tantalum series of capacitors follows AEC-Q200 guidelines. Standard catalog part types ordered without a specific automotive designator, i.e., suffix AUTO or four digit customer specific designator (C-Spec), are not considered KEMET Automotive Grade tantalum capacitors.

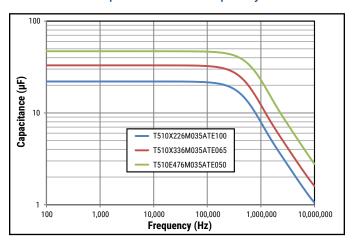


Electrical Characteristics

Impedance, ESR vs. Frequency

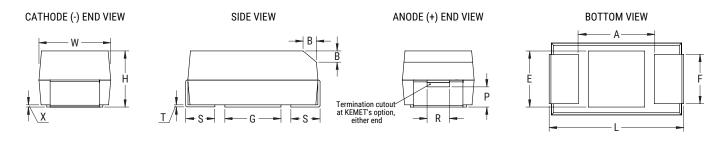


Capacitance vs. Frequency



Dimensions - Millimeters (Inches)

Metric will govern



Case	Size		I TOMPODONI									Typical Weight			
KEMET	EIA	L	W	Н	F ±0.1 ±(.004)	S ±0.3 ±(.012)	B ±0.15 (Ref) ±.006	X (Ref)	P (Ref)	R (Ref)	T (Ref)	A (Min)	G (Ref)	E (Ref)	(mg)
Х	7343-43	7.3 ±0.3 (0.287 ±0.012)	4.3 ±0.3 (0.169 ±0.012)	4.0 ±0.3 (0.157 ±0.012)	2.4 (0.094)	1.3 (0.051)	0.5 (0.020)	0.10 ±0.10 (0.004 ±0.004)	1.7 (0.067)	1.0 (0.039)	0.13 (0.005)	3.8 (0.150)	3.5 (0.138)	3.5 (0.138)	430.15
Е	7360-38	7.3 ±0.3 (0.287 ±0.012)	6.0 ±0.3 (0.236 ±0.012)	3.6 ±0.2 (0.142 ±0.008)	4.1 (0.161)	1.3 (0.051)	0.5 (0.020)	0.10 ±0.10 (0.004 ±0.004)	n/a	n/a	0.13 (0.005)	3.8 (0.150)	3.5 (0.138)	3.5 (0.138)	500.73

Notes: (Ref) – Dimensions provided for reference only. For low profile cases, no dimensions are provided for B, P, or R because these cases do not have a bevel or a notch.

These weights are provided as reference. If exact weights are needed, please contact your KEMET Sales Representative.



Table 1 - Ratings & Part Number Reference

Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DC Leakage	DF	ESR	Maximum Allowable Ripple Current (rms)			Maximum Operating Temp	MSL
VDC at 85°C	μF	KEMET/EIA	(See below for part options)	μA at +25°C Max/5 Min	% at +25°C 120 Hz Max	mΩ at +25°C 100 kHz Max	mA at +25°C 100 kHz	mA at +85°C 100 kHz	mA at +125°C 100 kHz	°C	Reflow Temp ≤ 260°C
4	680	X/7343-43	T510X687(1)004A(2)A030	27.2	6.0	30	3000	2700	1200	125	1
4	1000	X/7343-43	T510X108(1)004A(2)A035	40.0	6.0	35	2777	2499	1111	125	1
4	1000	E/7360-38	T510E108(1)004A(2)A018	40.0	6.0	18	3979	3581	1592	125	1
6.3	470	X/7343-43	T510X477(1)006A(2)A030	29.6	6.0	30	3000	2700	1200	125	1
6.3	680	X/7343-43	T510X687(1)006A(2)A023	42.8	6.0	23	3426	3083	1370	125	1
6.3	680	E/7360-38	T510E687(1)006A(2)A023	42.8	6.0	23	3520	3168	1408	125	1
10	330	X/7343-43	T510X337(1)010A(2)A035	33.0	6.0	35	2777	2499	1111	125	1
16	150	X/7343-43	T510X157(1)016A(2)A040	24.0	6.0	40	2598	2338	1039	125	1
16	220	X/7343-43	T510X227(1)016A(2)A040	35.2	10.0	40	2598	2338	1039	125	1
20	100	X/7343-43	T510X107(1)020A(2)A035	20.0	8.0	35	2777	2499	1111	125	1
20	100	X/7343-43	T510X107(1)020A(2)A040	20.0	6.0	40	2598	2338	1039	125	1
20	100	X/7343-43	T510X107(1)020A(2)A045	20.0	6.0	45	2449	2204	980	125	1
25	68	X/7343-43	T510X686(1)025A(2)A045	17.0	8.0	45	2449	2204	980	125	1
25	100	E/7360-38	T510E107(1)025A(2)A050	25.0	8.0	50	2387	2148	955	125	1
35	22	X/7343-43	T510X226(1)035A(2)A100	7.7	6.0	100	1643	1479	657	125	1
35	22	X/7343-43	T510X226(1)035A(2)A080	7.7	6.0	80	1837	1653	735	125	1
35	22	X/7343-43	T510X226(1)035A(2)A060	7.7	6.0	60	2121	1909	848	125	1
35	33	X/7343-43	T510X336(1)035A(2)A065	11.6	6.0	65	2038	1834	815	125	1
35	47	X/7343-43	T510X476(1)035A(2)A055	16.5	8.0	55	2216	1994	886	125	1
35	47	X/7343-43	T510X476(1)035A(2)A065	16.5	8.0	65	2038	1834	815	125	1
35	47	E/7360-38	T510E476(1)035A(2)A050	16.5	8.0	50	2387	2148	955	125	1
50	10	X/7343-43	T510X106(1)050A(2)A090	5.0	8.0	90	1732	1559	693	125	1
50	10	X/7343-43	T510X106(1)050A(2)A120	5.0	8.0	120	1500	1350	600	125	1
50	22	X/7343-43	T510X226(1)050A(2)A100	11.0	8.0	100	1643	1479	657	125	1
VDC at 85°C	μF	KEMET/EIA	(See below for part options)	μΑ at +25°C Max/5 Min	% at +25°C 120 Hz Max	mΩ at +25°C 100 kHz Max	mA at +25°C 100 kHz	mA at +85°C 100 kHz	mA at +125°C 100 kHz	°C	Reflow Temp ≤ 260°C
Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DC Leakage	DF	ESR	Maximum Allowable Ripple Current (rms)		Maximum Operating Temp	MSL	

⁽¹⁾ To complete KEMET part number, insert M for ±20% or K for ±10%. Designates Capacitance tolerance.

Refer to Ordering Information for additional detail.

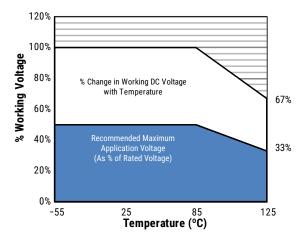
Higher voltage ratings and tighter tolerance product including ESR may be substituted within the same size at KEMET's option. Voltage substitution will be marked with the higher voltage rating. Substitutions can include better than series.

⁽²⁾ To complete KEMET part number, insert T = 100% Matte Tin (Sn)-plated, G = Gold-plated, H = Standard Solder coated (SnPb 5% Pb minimum), N = Non-Magnetic (SnPb). Designates Termination Finish.



Recommended Voltage Derating Guidelines

	-55°C to 85°C	85°C to 125°C
% Change in Working DC Voltage with Temperature	V_R	67% of V _R
Recommended Maximum Application Voltage	50% of V _R	33% of V _R



Ripple Current/Ripple Voltage

Permissible AC ripple voltage and current are related to equivalent series resistance (ESR) and the power dissipation capabilities of the device. Permissible AC ripple voltage which may be applied is limited by two criteria:

- 1. The positive peak AC voltage plus the DC bias voltage, if any, must not exceed the DC voltage rating of the capacitor.
- 2. The negative peak AC voltage in combination with bias voltage, if any, must not exceed the allowable limits specified for reverse voltage. See the Reverse Voltage section for allowable limits.

The maximum power dissipation by case size can be determined using the table at right. The maximum power dissipation rating stated in the table must be reduced with increasing environmental operating temperatures. Refer to the table below for temperature compensation requirements.

· ·	Temperature Compensation Multipliers for Maximum Ripple Current							
T ≤ 25°C	T ≤ 85°C	T ≤ 125°C						
1.00 0.90 0.40								

T= Environmental Temperature

The maximum power dissipation rating must be reduced with increasing environmental operating temperatures. Refer to the Temperature Compensation Multiplier table for details.

KEMET Series and Case Code	EIA Case Code	Maximum Power Dissipation (P max) mWatts at 25°C w/+20°C Rise		
Α	3216-18	75		
В	3528-21	85		
С	6032-28	110		
D	7343-31	150		
Х	7343-43	165		
E	7360-38	200		
S	3216-12	60		
Т	3528-12	70		
U	6032-15	90		
V	7343-20	125		
T510X	7343-43	270		
T510E	7360-38	285		

Using the P max of the device, the maximum allowable rms ripple current or voltage may be determined.

 $I(max) = \sqrt{P \max/R}$ $E(max) = Z \sqrt{P \max/R}$

I = rms ripple current (amperes)

E = rms ripple voltage (volts)

P max = maximum power dissipation (watts)

R = ESR at specified frequency (ohms)

Z = Impedance at specified frequency (ohms)



Reverse Voltage

Solid tantalum capacitors are polar devices and may be permanently damaged or destroyed if connected with the wrong polarity. The positive terminal is identified on the capacitor body by a stripe plus in some cases a beveled edge. A small degree of transient reverse voltage is permissible for short periods per the table. The capacitors should not be operated continuously in reverse mode, even within these limits.

Temperature	Permissible Transient Reverse Voltage
25°C	15% of Rated Voltage
85°C	5% of Rated Voltage
125°C	1% of Rated Voltage

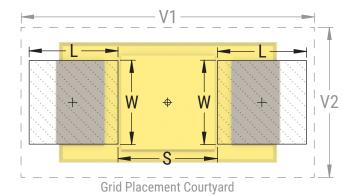
Table 2 - Land Dimensions/Courtyard

KEMET	Metric Size Code	Density Level A: Maximum (Most) Land Protrusion (mm)			N	Density Level B: Median (Nominal) Land Protrusion (mm)				Density Level C: Minimum (Least) Land Protrusion (mm)						
Case	EIA	W	L	S	V1	V2	W	L	S	V1	V2	W	L	S	V1	V2
E¹	7360-38	4.25	2.77	3.67	10.22	7.30	4.13	2.37	3.87	9.12	6.80	4.03	1.99	4.03	8.26	6.54
X ¹	7343-43	2.55	2.77	3.67	10.22	5.60	2.43	2.37	3.87	9.12	5.10	2.33	1.99	4.03	8.26	4.84

Density Level A: For low-density product applications. Recommended for wave solder applications and provides a wider process window for reflow solder processes.

Density Level B: For products with a moderate level of component density. Provides a robust solder attachment condition for reflow solder processes. **Density Level C:** For high component density product applications. Before adapting the minimum land pattern variations the user should perform qualification testing based on the conditions outlined in IPC standard 7351 (IPC-7351).

² Land pattern geometry is too small for silkscreen outline.



¹ Height of these chips may create problems in wave soldering.



Soldering Process

KEMET's families of surface mount capacitors are compatible with wave (single or dual), convection, IR, or vapor phase reflow techniques. Preheating of these components is recommended to avoid extreme thermal stress. KEMET's recommended profile conditions for convection and IR reflow reflect the profile conditions of the IPC/J-STD-020D standard for moisture sensitivity testing. The devices can safely withstand a maximum of three reflow passes at these conditions.

Please note that although the X/7343-43 case size can withstand wave soldering, the tall profile (4.3 mm maximum) dictates care in wave process development.

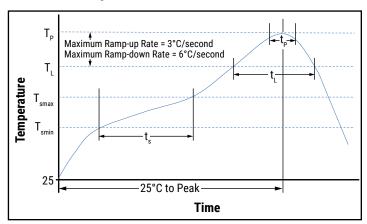
Hand soldering should be performed with care due to the difficulty in process control. If performed, care should be taken to avoid contact of the soldering iron to the molded case. The iron should be used to heat the solder pad, applying solder between the pad and the termination, until reflow occurs. Once reflow occurs, the iron should be removed immediately. "Wiping" the edges of a chip and heating the top surface is not recommended.

During typical reflow operations, a slight darkening of the gold-colored epoxy may be observed. This slight darkening is normal and not harmful to the product. Marking permanency is not affected by this change.

Profile Feature	SnPb Assembly	Pb-Free Assembly		
Preheat/Soak				
Temperature Minimum (T _{Smin})	100°C	150°C		
Temperature Maximum (T _{Smax})	150°C	200°C		
Time (t_s) from T_{smin} to T_{smax})	60 - 120 seconds	60 - 120 seconds		
Ramp-up Rate (T _L to T _P)	3°C/seconds maximum	3°C/seconds maximum		
Liquidous Temperature (T _L)	183°C	217°C		
Time Above Liquidous (t _L)	60 - 150 seconds	60 – 150 seconds		
Peak Temperature (T _P)	220°C* 235°C**	250°C* 260°C**		
Time within 5°C of Maximum Peak Temperature (t _P)	20 seconds maximum	30 seconds maximum		
Ramp-down Rate $(T_P \text{ to } T_L)$	6°C/seconds maximum	6°C/seconds maximum		
Time 25°C to Peak Temperature	6 minutes maximum	8 minutes maximum		

Note: All temperatures refer to the center of the package, measured on the package body surface that is facing up during assembly reflow.

^{**} For Case Size height ≤ 2.5 mm



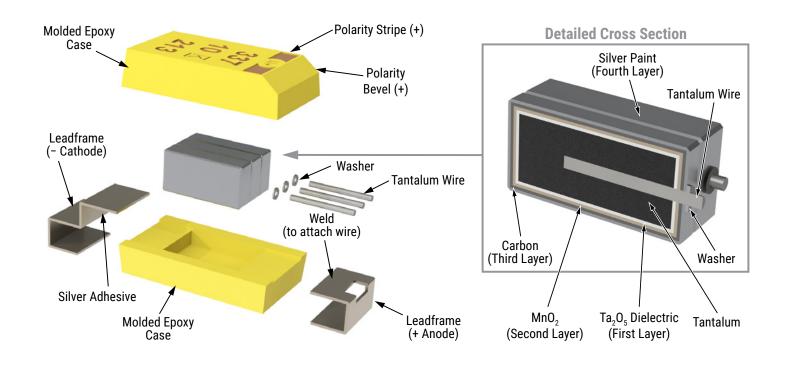
Storage

Tantalum chip capacitors should be stored in normal working environments. While the chips themselves are quite robust in other environments, solderability will be degraded by exposure to high temperatures, high humidity, corrosive atmospheres, and long term storage. In addition, packaging materials will be degraded by high temperature – reels may soften or warp and tape peel force may increase. KEMET recommends that maximum storage temperature not exceed 40°C and maximum storage humidity not exceed 60% relative humidity. Temperature fluctuations should be minimized to avoid condensation on the parts and atmospheres should be free of chlorine and sulphur bearing compounds. For optimized solderability chip stock should be used promptly, preferably within three years of receipt.

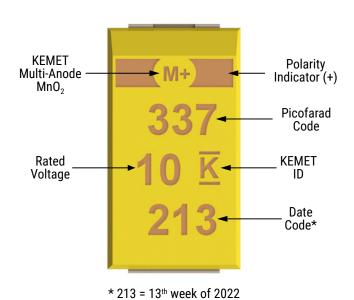
^{*} For Case Size height > 2.5 mm



Construction



Capacitor Marking



Date Code ^								
1st digit = Last number of Year	8 = 2018							
_	9 = 2019							
	0 = 2020							
	1 = 2021							
	2 = 2022							
2 nd and 3 rd digit = Week of the Year	01 = 1 st week of the Year to 52 = 52 nd week of the Year							



Tape & Reel Packaging Information

KEMET's molded chip capacitor families are packaged in 8 and 12 mm plastic tape on 7" and 13" reels in accordance with EIA Standard 481: Embossed Carrier Taping of Surface Mount Components for Automatic Handling. This packaging system is compatible with all tape-fed automatic pick-and-place systems.

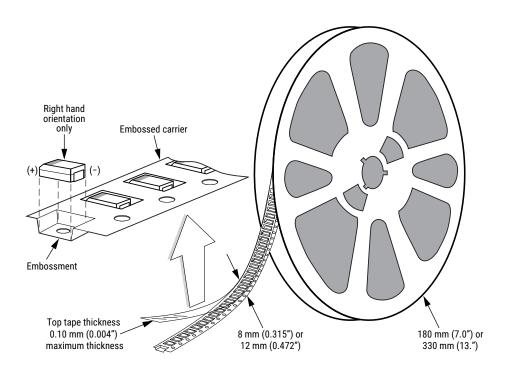


Table 3 - Packaging Quantity

Case Code		Tape Width (mm)	7" Reel*	13" Reel*	
KEMET	EIA				
S	3216-12	8	2,500	10,000	
T	3528-12	8	3,000	10,000	
М	3528-15	8	2,500	8,000	
U	6032-15	12	1,000	5,000	
L	6032-19	12	1,000	3,000	
W	7343-15	12	1,000	3,000	
Z	7343-17	12	1,000	3,000	
V	7343-20	12	1,000	3,000	
Α	3216-18	8	2,000	9,000	
В	3528-21	8	2,000	8,000	
С	6032-28	12	500	3,000	
D	7343-31	12	500	2,500	
Q	7343-12	12	1,000	3,000	
Υ	7343-40	12	500	2,000	
Х	7343-43	12	500	2,000	
E/T428P	7360-38	12	500	2,000	
Н	7360-20	12	1,000	2,500	
0	7360-43	12	250	1,000	

^{*} No C-Spec required for 7" reel packaging. C-7280 required for 13" reel packaging.



Figure 1 - Embossed (Plastic) Carrier Tape Dimensions

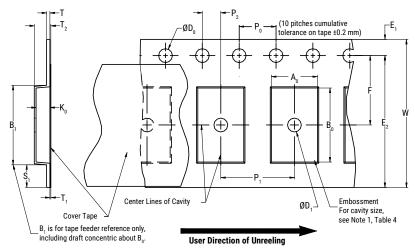


Table 4 - Embossed (Plastic) Carrier Tape Dimensions

Metric will govern

Constant Dimensions — Millimeters (Inches)									
Tape Size	D ₀	D ₁ Minimum Note 1	E ₁	P ₀	P ₂	R Reference Note 2	S ₁ Minimum Note 3	T Maximum	T ₁ Maximum
8 mm	1.5 +0.10/-0.0 (0.059 +0.004/-0.0)	1.0 (0.039)	1.75 ±0.10	4.0 ±0.10	2.0 ±0.05 (0.079 ±0.002)	25.0 (0.984)	0.600 (0.024)	0.600 (0.024)	0.100 (0.004)
12 mm		1.5 (0.059)	(0.069 ±0.004)	(0.157 ±0.004)		30 (1.181)			

Variable Dimensions — Millimeters (Inches)								
Tape Size	Pitch	B ₁ Maximum Note 4	E ₂ Minimum	F	P ₁	T ₂ Maximum	W Maximum	A ₀ , B ₀ & K ₀
8 mm	Single (4 mm)	4.35 (0.171)	6.25 (0.246)	3.5 ±0.05 (0.138 ±0.002)	2.0 ±0.05 or 4.0 ±0.10 (0.079 ±0.002 or 0.157 ±0.004)	2.5 (0.098)	8.3 (0.327)	
12 mm	Single (4 mm) and Double (8 mm)	8.2 (0.323)	10.25 (0.404)	5.5 ±0.05 (0.217 ±0.002)	2.0 ±0.05 (0.079 ±0.002) or 4.0 ±0.10 (0.157 ±0.004) or 8.0 ±0.10 (0.315 ±0.004)	4.6 (0.181)	12.3 (0.484)	Note 5

- 1. The embossment hole location shall be measured from the sprocket hole controlling the location of the embossment. Dimensions of embossment location and hole location shall be applied independent of each other.
- 2. The tape, with or without components, shall pass around R without damage (see Figure 4).
- 3. If S₁ < 1.0 mm, there may not be enough area for cover tape to be properly applied (see EIA Standard 481–D, paragraph 4.3, section b).
- 4. B_1 dimension is a reference dimension for tape feeder clearance only.
- 5. The cavity defined by A_{o} , B_{o} and K_{o} shall surround the component with sufficient clearance that:
 - (a) the component does not protrude above the top surface of the carrier tape.
 - (b) the component can be removed from the cavity in a vertical direction without mechanical restriction, after the top cover tape has been removed.
 - (c) rotation of the component is limited to 20° maximum for 8 and 12 mm tapes (see Figure 2).
 - (d) lateral movement of the component is restricted to 0.5 mm maximum for 8 mm and 12 mm wide tape (see Figure 3).
 - (e) see Addendum in EIA Standard 481-D for standards relating to more precise taping requirements.



Packaging Information Performance Notes

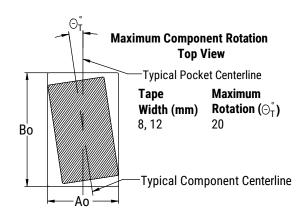
- 1. Cover tape break force: 1.0 kg minimum.
- 2. Cover tape peel strength: The total peel strength of the cover tape from the carrier tape shall be:

Tape Width	Peel Strength		
8 mm	0.1 to 1.0 newton (10 to 100 gf)		
12 mm	0.1 to 1.3 newton (10 to 130 gf)		

The direction of the pull shall be opposite the direction of the carrier tape travel. The pull angle of the carrier tape shall be 165° to 180° from the plane of the carrier tape. During peeling, the carrier and/or cover tape shall be pulled at a velocity of 300 ±10 mm/minute.

3. Labeling: Bar code labeling (standard or custom) shall be on the side of the reel opposite the sprocket holes. *Refer to EIA Standards 556 and 624*.

Figure 2 - Maximum Component Rotation



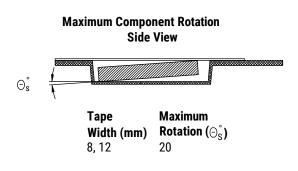


Figure 3 – Maximum Lateral Movement

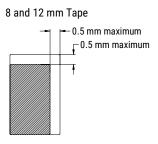


Figure 4 - Bending Radius

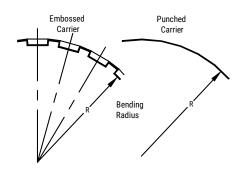
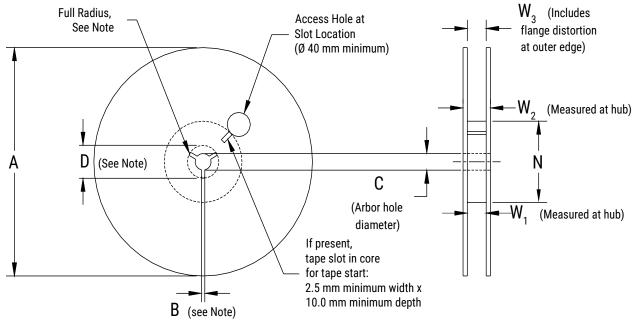




Figure 5 - Reel Dimensions



Note: Drive spokes optional; if used, dimensions B and D shall apply.

Table 5 - Reel Dimensions

Metric will govern

	Constant Dimensions — Millimeters (Inches)								
Tape Size	A	B Minimum	С	D Minimum					
8 mm	178 ±0.20 (7.008 ±0.008)								
12 mm	or 330 ±0.20 (13.000 ±0.008)	1.5 (0.059)	13.0 +0.5/-0.2 (0.521 +0.02/-0.008)	20.2 (0.795)					
	Variable Dimensions — Millimeters (Inches)								
Tape Size	N Minimum	W ₁	W ₂ Maximum	W ₃					
8 mm	50	8.4 +1.5/-0.0 (0.331 +0.059/-0.0)	14.4 (0.567)	Shall accommodate tape					
12 mm	(1.969)	12.4 +2.0/-0.0 (0.488 +0.078/-0.0)	18.4 (0.724)	width without interference					



Figure 6 – Tape Leader & Trailer Dimensions

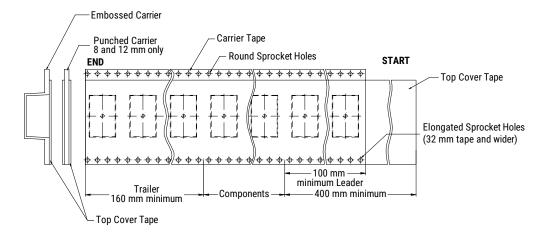
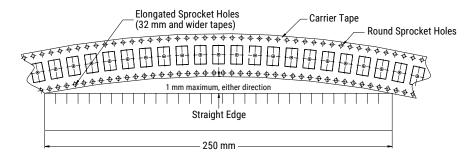


Figure 7 – Maximum Camber





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