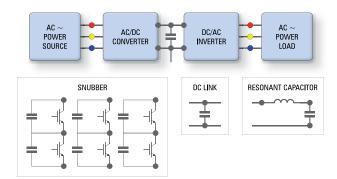
Overview

KEMET's KC-LINK surface mount capacitors are designed to meet the growing demand for fast switching wide bandgap (WBG) semiconductors that operate at higher voltages, temperatures, and frequencies. By utilizing KEMET's robust and proprietary COG/NPO base metal electrode (BME) dielectric system, these capacitors are well suited for power converters, inverters, snubbers, and resonators, where high efficiency is a primary concern. With extremely low effective series resistance (ESR) and very low thermal resistance, KC-LINK capacitors can operate at very high ripple currents with no change in capacitance versus DC voltage, and negligible change in capacitance versus temperature. With an operating temperature of 150°C, these capacitors can be mounted close to fast switching semiconductors in high power density applications, which require minimal cooling.



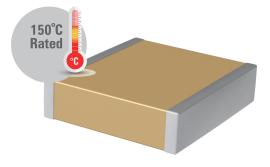
Benefits

- EIA 1812, 2220, and 3640 case size
- · AEC-Q200 automotive qualified
- Flexible termination option available
- · Very high ripple current capability
- Extremely low equivalent series resistance (ESR)
- Extremely low equivalent series inductance (ESL)
- Operating temperature range of -55°C to +150°C
- High frequency operation (> 10 MHz)
- · No capacitance shift with voltage
- No piezoelectric noise
- High thermal stability
- RoHS compliant and Pb-free



KC-LINK COG dielectric technology also exhibits high mechanical robustness compared to other dielectric technologies, allowing the capacitor to be mounted without the use of lead frames. This provides extremely low effective series inductance (ESL) increasing the operating frequency range allowing for further miniaturization. For added reliability, KC-LINK is now available with flexible termination technology that provides superior flex performance over standard termination systems, addressing the primary failure mode of MLCC's flex cracks.

In addition to commercial grade, automotive grade devices are available and meet the demanding Automotive Electronics Council's AEC-Q200 qualification requirements.



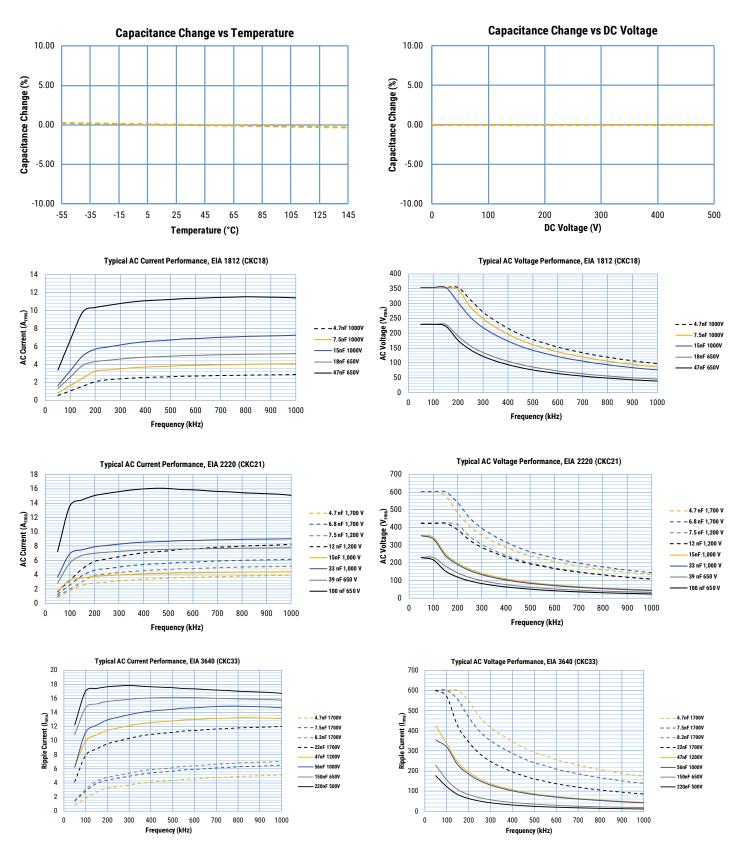
Applications

- Wide bandgap (WBG), silicon carbide (SiC) and gallium nitride (GaN) systems
- EV/HEV (drive systems, charging)
- · Wireless charging
- · Photovoltaic systems
- · Power converters
- Inverters
- · LLC resonant converters
- DC link
- Snubber





Typical Performance



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Electrical Parameters/Characteristics

Item	Parameters/C	haracteristics		
Operating temperature range	-55°C to +150°C			
Capacitance change with reference to +25°C and 0 VDC applied (TCC)	±30 PPM/°C			
Aging rate (maximum % capacitance loss/decade hour)	0%			
	Rated Voltage	DWV		
	500 V	150% of rated voltage		
¹ Dielectric Withstanding Voltage (DWV)	650 V	130% of rated voltage		
	≥ 1,000 V	120% of rated voltage		
	(5±1 seconds and charge/discharge not e	xceeding 50 mA)		
² Dissipation Factor (DF) Maximum Limit at 25°C	0.1%			
³ Insulation Resistance (IR) Minimum Limit at 25°C	25°C 1,000 - MΩ - μF or 100 GΩ (500 VDC applied for 120±5 seconds at 25°C)			

¹ DWV is the voltage a capacitor can withstand (survive) for a short period of time. It exceeds the nominal and continuous working voltage of the capacitor.

² Capacitance and dissipation factor (DF) measured under the following conditions:

1 MHz ±100 kHz and 1.0 ±0.2 V_{rms} if capacitance \leq 1,000 pF

1 kHz ±50 Hz and 1.0 ±0.2 V_{rms} if capacitance > 1,000 pF

³ To obtain IR limit, divide $M\Omega - \mu F$ value by the capacitance and compare to $G\Omega$ limit. Select the lower of the two limits.

Note: When measuring capacitance it is important to ensure the set voltage level is held constant. The HP4284 and Agilent E4980 have a feature known as Automatic Level Control (ALC). The ALC feature should be switched to "ON."

Ordering Information

СКС	33	C	224	K	С	G	Α	С	TU
Series	Case Size (L"x W")	Specification/ Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (V)	Dielectric	Subclass Designation	Termination Finish	Packaging (Suffix/C-Spec)
CKC = KC-LINK	18 = 1812 21 = 2220 33 = 3640	C = Standard X = Flex ¹	Two single digits and number of zeros. Use 9 for 1.0 - 9.9 pF e.g., 2.2 pF = 229	F = ±1% G = ±2% J = ±5% K = ±10% M = ±20%	C = 500 V W = 650 V D = 1,000 V E = 1,200 V J = 1,700 V	G = COG	A = N/A	C = 100% matte Sn	See "Packaging C-Spec Ordering Options Table"

¹ Flexible termination is only available for EIA 1812 and 2220 case sizes.

Environmental Compliance

Lead (Pb)-free, RoHS, and REACH compliant without exemptions.



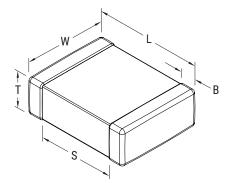
Packaging C-Spec Ordering Options Table

Packaging Type	Packaging/Grade Ordering Code (C-Spec)
Commerc	cial Grade
Bulk Bag ¹ /Unmarked	Not required (Blank)
7" Reel/Unmarked	TU
13" Reel (Embossed Plastic Tape)/Unmarked	7210
Automoti	ve Grade ²
7" Reel	AUTO
13" Reel (Embossed Plastic Tape)/Unmarked	AUT07210

¹ Default packaging is "Bulk Bag". An ordering code C-Spec is not required for "Bulk Bag" packaging. "Bulk Bag" packaging option is not available for case sizes larger than 2225 (5664 Metric).

² For additional Information regarding "AUTO" C-Spec options, see "Automotive C-Spec Information."

Dimensions – Millimeters (Inches)



Standard Termination

KC-LINK CODE	EIA SIZE CODE	METRIC SIZE CODE	L LENGTH	W WIDTH	T THICKNESS	B Bandwidth	S SEPARATION Minimum	Mounting Technique
18	1812	4532	4.50 (0.177) ±0.30 (0.012)	3.20 (0.126) ±0.30 (0.012)		0.60 (0.024) ±0.35 (0.014)		
21	2220	5650	5.70 (0.224) ±0.40 (0.016)	5.00 (0.197) ±0.40 (0.016)	See Table 2 for Thickness	0.60 (0.024) ±0.35 (0.014)	N/A	Solder Reflow Only
33	3640	9210	9.30 (0.366) ±0.60 (0.024)	10.20 (0.402) ±0.40 (0.016)		1.27 (0.050) ±0.40 (0.016)		

Flex Termination

KC-LINK CODE	EIA SIZE CODE	METRIC SIZE CODE	L LENGTH	W WIDTH	T THICKNESS	B Bandwidth	S SEPARATION Minimum	Mounting Technique
18	1812	4532	4.50 (0.178) ±0.40 (0.016)	3.20 (0.126) ±0.30 (0.012)	See Table 2 for	0.70 (0.028) ±0.35 (0.014)	NI / A	Solder Reflow
21	2220	5650	5.90 (0.232) ±0.75 (0.030)	5.00 (0.197) ±0.40 (0.016)	Thickness	0.70 (0.028) ±0.35 (0.014)	N/A	Only



Table 1 – Capacitance Range/Selection Waterfall Standard Termination

		C	ase S	Size/	Seri	es	C	KC18	C		C	KC21	С			C	KC33	C	
				,				1812				2220					3640		
Capacitance	Capacitance		Voltage Code				C	W	D	C	W	D	E	J	C	W	D	Ε	J
oupuonanoo	Code	Ra	ated V	oltag	e (VD)C)	500	650	1000	500	650	1000	1200	1700	500	650	1000	1200	1700
		Caj	pacita	nce 1	Tolera	nce										s Code Dimens			
4,700 pF	472	F	G	J	K	М	GD	GD	GD	JK	JK	JK	JK	JK	MA	MA	MA	MA	MA
5,100 pF	512	F	G	J	K	M	GD	GD	GD	JL	JL	JL	JL	JL	MA	MA	MA	MA	MA
5,600 pF	562	F	G	J	K	M	GD	GD	GD	JL	JL	JL	JL	JL	MA	MA	MA	MA	MA
6,200 pF	622	F	G	J	K	M	GH	GH	GH	JN	JN	JN	JN	JN	MA	MA	MA	MA	MA
6,800 pF	682	F	G	J	K	M	GH	GH	GH	JN	JN	JN	JN	JN	MA	MA	MA	MA	MA
7,500 pF	752	F	G	J	K	M	GK	GK	GK	JK	JK	JK	JK		MB	MB	MB	MB	MB
8,200 pF	822	F	G	J	K	M	GK	GK	GK	JL	JL	JL	JL		MB	MB	MB	MB	MB
9,100 pF	912	F	G	J	K	M	GM	GM	GM	JL	JL	JL	JL		MB	MB	MB	MB	MB
10,000 pF	103	F	G	J	K	M	GM	GM	GM	JL	JL	JL	JL		MB	MB	MB	MB	MB
12,000 pF	123	F	G	J	K	M	GO	GO	GO	JN	JN	JN	JN		MB	MB	MB	MB	MB
15,000 pF	153	F	G	J	K	M	GO	GO	GO	JE	JE	JE			MC	MC	MC	MC	MC
18,000 pF	183	F	G	J	K	M	GH	GH		JE	JE	JE			MC	MC	MC	MC	MC
22,000 pF	223	F	G	J	K	M	GH	GH		JK	JK	JK			MC	MC	MC	MC	MC
27,000 pF	273	F	G	J	K	M	GK	GK		JL	JL	JL			MB	MB	MB	MB	
33,000 pF	333	F	G	J	K	M	GM	GM		JN	JN	JN			MB	MB	MB	MB	
39,000 pF	393	F	G	J	K	M	GO	GO		JE	JE				MC	MC	MC	MC	
47,000 pF	473	F	G	J	K	M	GO	GO		JE	JE				MC	MC	MC	MC	
56,000 pF	563	F	G	J	K	M				JK	JK				MC	MC	MC		
68,000 pF	683	F	G	J	K	M				JL	JL				MC	MC			
82,000 pF	823	F	G	J	K	M				JL	JL				MB	MB			
0.1 µF	104	F	G	J	K	М				JN	JN				MB	MB			
0.12 µF	124	F	G	J	K	M									MB	MB			
0.15 µF	154	F	G	J	K	M									MC	MC			
0.18 µF	184	F	G	J	K	M									MC				
0.22 μF	224	F	G	J	K	M									MC				
		Ra	ated V	oltag	e (VD)C)	500	650	1000	500	650	1000	1200	1700	500	650	1000	1200	1700
Capacitance	Capacitance		Volt	age (Code		C	W	D	C	W	D	E	J	C	W	D	E	J
•	Code		Case	Cize/	Corio			1812				2220			3640				
			Lase	3128/	Serie	5	(CKC18	С		(KC22	C			C	CKC33	С	

Note: Flexible termination available only for EIA 1812 and 2220.

Table 2 – Chip Thickness/Tape & Reel Packaging Quantities

Thickness	Case	Thickness ±	Plastic	Quantity	Thickness	Case	Thickness ±	Plastic	Quantity
Code	Size ¹	Range (mm)	7" Reel	13" Reel	Code	Size ¹	Range (mm)	7" Reel	13" Reel
GD	1812	1.25 ± 0.15	1,000	4,000	JL	2220	2.00 ± 0.20	500	2,000
GH	1812	1.40 ± 0.15	1,000	4,000	JN	2220	2.50 ± 0.20	500	2,000
GK	1812	1.60 ± 0.20	1,000	4,000	MA	3640	1.40 ± 0.15	250	1,000
GM	1812	2.00 ± 0.20	500	2,000	MB	3640	2.00 ± 0.20	250	1,000
GO	1812	2.50 ± 0.20	500	2,000	MC	3640	2.50 ± 0.20	250	1,000
JE	2220	1.40 ± 0.15	1,000	4,000					
JK	2220	1.60 ± 0.20	1,000	4,000					
Thickness	Case	Thickness ±	7" Reel	13" Reel	Thickness	Case	Thickness ±	7" Reel	13" Reel
Code	Size ¹	Range (mm)	Plastic	Quantity	Code	Size ¹	Range (mm)	Plastic Quantity	

Package quantity based on finished chip thickness specifications.



Table 3 – Performance & Reliability: Test Methods and Conditions (Commercial Only)

Stress	Reference	Test or Inspection Method
Terminal Strength	JIS-C-6429	Appendix 1, Note: force of 1.8 kg for 60 seconds
Board Flex	JIS-C-6429	Appendix 2, Note: 3.0 mm (minimum)
		Magnification 50X. Conditions:
Calderahilitu		a) Method B, 4 hours at 155°C, dry heat at 235°C
Solderability	J-STD-002	b) Method B at 215°C, category 3
		c) Method D at 260°C, category 3
Temperature Cycling	JESD22 Method JA-104	1,000 cycles (-55°C to +150°C), measurement at 24 hours ± 4 hours after test conclusion
	MIL-STD-202	Load Humidity: 1,000 hours 85°C/85% RH and 200 VDC maximum. Add 100,000 Ω resistor. Measurement at 24 hours ± 4 hours after test conclusion
Biased Humidity	Method 103	Low Volt Humidity: 1,000 hours 85°C/85% RH and 1.5 V. Add 100 K Ω resistor. Measurement at 24 hours ±4 hours after test conclusion.
High Temperature Life	MIL-STD-202 Method 108/EIA-198	1,000 hours at 150°C with 1.0 X rated voltage applied.
Storage Life	MIL-STD-202 Method 108	150°C, 0 VDC, for 1,000 hours.
Vibration	MIL-STD-202 Method 204	5 G for 20 minutes, 12 cycles each of 3 orientations. Note: use 8" X 5" PCB 0.031" thick 7 secure points on one long side and 2 secure points at corners of opposite sides. Parts mounted within 2" from any secure point. Test from 10 – 2,000 Hz.
Mechanical Shock	MIL-STD-202 Method 213	Figure 1 of Method 213, condition F.
Resistance to Solvents	MIL-STD-202 Method 215	Add aqueous wash chemical, OKEM Clean or equivalent.



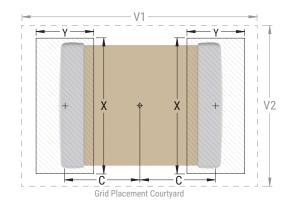
Table 4 – Chip Capacitor Land Pattern Design Recommendations per IPC-7351

KC- LINK CODE	EIA SIZE CODE	METRIC SIZE CODE	М	Density Level A: Maximum (Most) Land Protrusion				M	Density Level B: Median (Nominal) Land Protrusion					Density Level C: Minimum (Least) Land Protrusion				
OODL	OODL	OODL	C	Y	X	V1	V2	C	Y	X	V1	V2	C	Y	X	V1	V2	
18	1812	4532	2.15	1.60	3.60	6.90	4.60	2.05	1.40	3.50	6.00	4.00	1.95	1.20	3.40	5.30	3.70	
21	2220	5650	2.75	1.70	5.50	8.20	6.50	2.65	1.50	5.40	7.30	5.90	2.55	1.30	5.30	6.60	5.60	
33	3640	9210	4.45	1.70	10.70	11.60	11.70	4.35	1.50	10.60	10.70	11.10	4.25	1.30	10.50	10.00	10.80	

Density Level A: For low-density product applications. Recommended for wave solder applications and provides a wider process window for reflow solder processes. KEMET only recommends wave soldering of EIA 0603, 0805 and 1206 case sizes.

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).

Image below based on Density Level B for an EIA 1210 case size.





Automotive C-Spec Information

KEMET automotive grade products meet or exceed the requirements outlined by the Automotive Electronics Council. Details regarding test methods and conditions are referenced in document AEC-Q200, Stress Test Qualification for Passive Components. These products are supported by a Product Change Notification (PCN) and Production Part Approval Process warrant (PPAP).

Automotive products offered through our distribution channel have been assigned an inclusive ordering code C-Spec, "AUTO." This C-Spec was developed in order to better serve small and medium-sized companies that prefer an automotive grade component without the requirement to submit a customer Source Controlled Drawing (SCD) or specification for review by a KEMET engineering specialist. This C-Spec is therefore not intended for use by KEMET OEM automotive customers and are not granted the same "privileges" as other automotive C-Specs. Customer PCN approval and PPAP request levels are limited (see details below.)

Product Change Notification (PCN)

The KEMET product change notification system is used to communicate primarily the following types of changes:

- Product/process changes that affect product form, fit, function, and/or reliability
- Changes in manufacturing site
- Product obsolescence

KEMET Automotive	Customer Notifica	tion Due To:	Days Prior To
C-Spec	Process/Product change	Obsolescence*	Implementation
KEMET assigned ¹	Yes (with approval and sign off)	Yes	180 days minimum
AUTO	Yes (without approval)	Yes	90 days minimum

¹ KEMET assigned C-Specs require the submittal of a customer SCD or customer specification for review. For additional information contact KEMET.

Production Part Approval Process (PPAP)

The purpose of the Production Part Approval Process is:

- To ensure that supplier can meet the manufacturability and quality requirements for the purchased parts.
- To provide the evidence that all customer engineering design records and specification requirements are properly understood and fulfilled by the manufacturing organization.
- To demonstrate that the established manufacturing process has the potential to produce the part.

KEMET Automotive	I	PPAP (Product	Part Approval	Process) Leve	I			
C-Spec	1	2	3	4	5			
KEMET assigned ¹	•	•	•	•	•			
AUTO	0							

¹ KEMET assigned C-Specs require the submittal of a customer SCD or customer specification for review. For additional information contact KEMET.

• Part number specific PPAP available

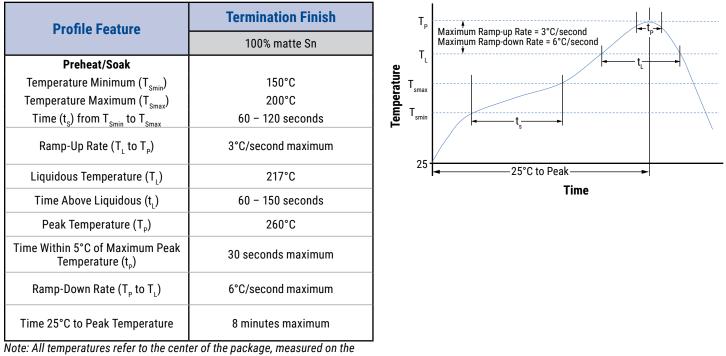
• Product family PPAP only



Soldering Process

Recommended Reflow Soldering Profile

KEMET's families of surface mount multilayer ceramic capacitors (SMD MLCCs) 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-020 standard for moisture sensitivity testing. These devices can safely withstand a maximum of three reflow passes at these conditions.



capacitor body surface that is facing up during assembly reflow.

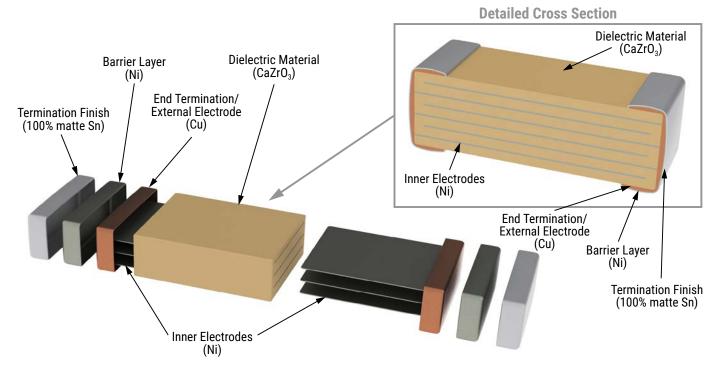
Storage & Handling

Ceramic 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 70% relative humidity. In addition, temperature fluctuations should be minimized to avoid condensation on the parts and atmospheres should be free of chlorine and sulfur bearing compounds. For optimized solderability chip stock should be used promptly, preferably within 1.5 years upon receipt.

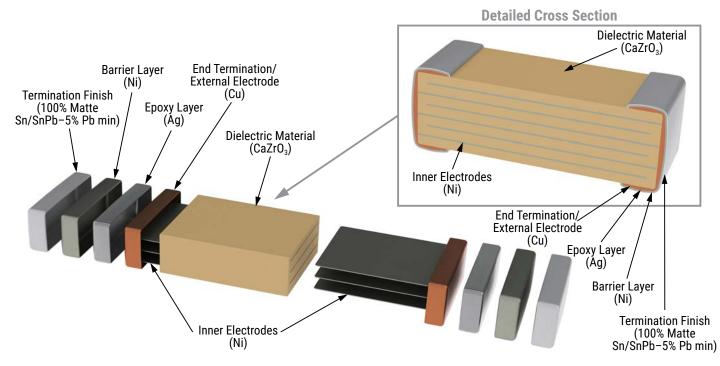


Construction

Standard Termination



Flex Termination





Tape & Reel Packaging Information

KEMET offers multilayer ceramic chip capacitors packaged in 8, 12, 16 and 24 mm tape on 7" and 13" reels in accordance with EIA Standard 481. This packaging system is compatible with all tape-fed automatic pick and place systems. See Table 2 for details on reeling quantities for commercial chips.

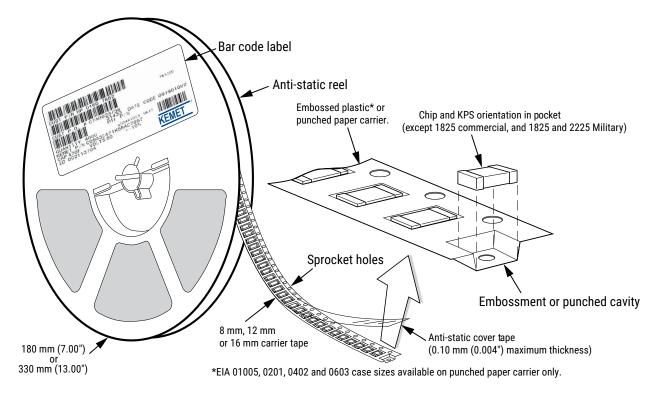


Table 5 – Carrier Tape Configuration, Embossed Plastic (mm)

		Embossed Plastic				
EIA Case Size	Tape Size (W)*	7" Reel	13" Reel			
	(11)	Pitch (P ₁)*				
1812, 2220	12	8	8			
3640	24	16	16			

*Refer to Figure 1 for W and P₁ carrier tape reference locations. *Refer to Tables 4 and 5 for tolerance specifications.



Figure 1 – Embossed (Plastic) Carrier Tape Dimensions

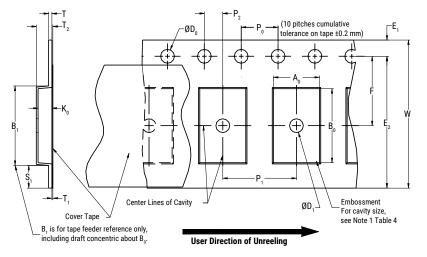


Table 6 – Embossed (Plastic) Carrier Tape Dimensions

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	S1 Minimum Note 3	T Maximum	T ₁ Maximum	
12 mm	1.5+0.10/-0.0 (0.059+0.004/-0.0)	1.5 (0.059)	1.75±0.10 (0.069±0.004)	4.0±0.10 (0.157±0.004)	2.0±0.05 (0.079±0.002)	30 (1.181)	0.600 (0.024)	0.600 (0.024)	0.600 (0.024)	
24 mm	1.5 +0.10/-0.0 (0.059 +0.004/-0.0)	1.5 (0.059)	1.75 ±0.10 (0.069 ±0.004)	4.0 ±0.10 (0.157 ±0.004)	2.0 ±0.10 (0.078 ±0.003)	30 (1.181)	5 (0.196)	0.250 (0.009)	0.350 (0.013)	
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 a	and K _o	
12 mm	Single (4 mm) and Double (8 mm)		10.25 (0.404)	5.5±0.05 (0.217±0.002)	8.0±0.10 (0.315±0.004)	4.6 (0.181)	12.3 (0.484)	Note 5		
24 mm	16 mm	22.25 (0.875)	11.5 ±0.10 (0.452 ±0.003)	16.0 ±0.10 (0.629 ±0.004)	3 (0.118)	24.3 (0.956)	24.3 (0.956)			

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 6).

3. If S1 < 1.0 mm, there may not be enough area for cover tape to be properly applied (see EIA Document 481 paragraph 4.3 (b)).

4. B1 dimension is a reference dimension for tape feeder clearance only.

5. The cavity defined by A_{α} , B_{α} and K_{α} 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 and 10° maximum for 16 mm tapes (see Figure 3).

(d) lateral movement of the component is restricted to 0.5 mm maximum for 8 mm and 12 mm wide tape and to 1.0 mm maximum for 16 mm tape (see Figure 4)

(e) For KPS Series product, A0 and B0 are measured on a plane 0.3 mm above the bottom of the pocket.

(f) see Addendum in EIA Document 481 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 and 16 mm	0.1 to 1.3 Newton (10 to 130 gf)			
24 mm	0.1 to 1.6 Newton (10 to 160 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

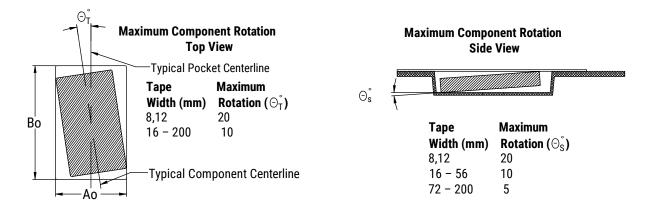


Figure 3 – Maximum Lateral Movement

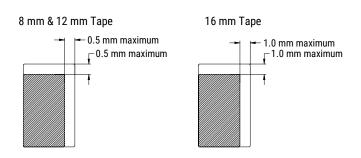


Figure 4 – Bending Radius

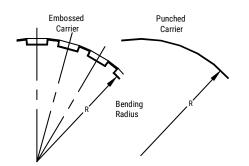
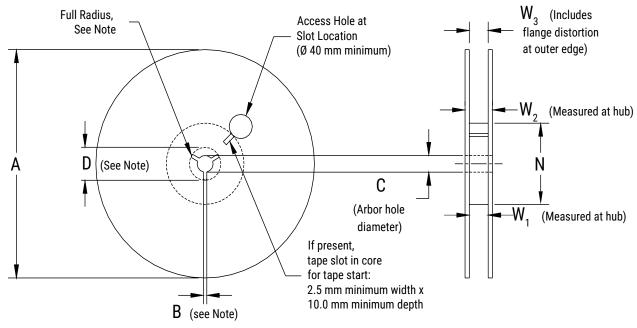




Figure 5 – Reel Dimensions



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

Table 7 – Reel Dimensions

Metric will govern

Constant Dimensions – Millimeters (Inches)										
Tape Size	А	B Minimum	С	D Minimum						
12 mm	178±0.20 (7.008±0.008)	1.5 (0.059)	13.0+0.5/-0.2 (0.521+0.02/-0.008)	20.2 (0.795)						
24 mm	or 330±0.20 (13.000±0.008)	1.213.0 ±0.2(0.047)(0.521 ±0.008)		21 (0.826)						
Variable Dimensions – Millimeters (Inches)										
Tape Size	N Minimum	W ₁	W ₂ Maximum	W ₃						
12 mm	50	12.4+2.0/-0.0 (0.488+0.078/-0.0)	18.4 (0.724)	Shall accommodate tape						
24 mm	(1.969)	25 +1.0/-0.0 (0.984 +0.039/-0.0)	27.4 ±1.0 (1.078 ±0.039)	width without interference						



Figure 6 – Tape Leader & Trailer Dimensions

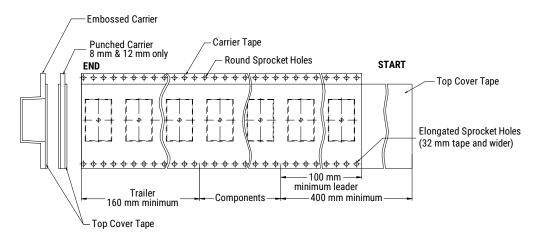
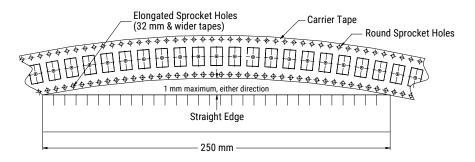


Figure 7 – Maximum Camber





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