

SUBJECT: Discontinuation of the availability of particular lead-forming style options for the Radial-Leaded ECC / ECK Ceramic Disc Capacitors
ECC' * 'xxxxxxx (Class 1) and ECK' * 'xxxxxxx (Class 2)

Discontinued style's: D, M, C, J, W, Z, R, K Recommended Alternatives: A, E, N

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DATE: October 7, 2004
Revised: March 2, 2005

LAST BUY DATE: December 24, 2004

LAST SHIP DATE: March 31, 2005

DISCONTINUATION DETAILS:

Note: The lead-forming style is indicated by the 'letter' in position 4 (*) of the P/N

Discontinued Lead Styles

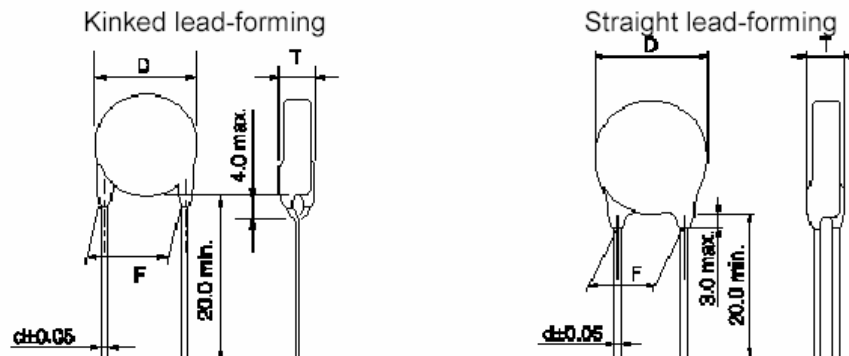
Recommended Alternative Lead Styles

Current products		New standard (kinked type)	
Name of lead style	style	Name of lead style	style
Straight long lead, Bulk	D	Kinked long lead, Bulk	A
Straight short lead, Bulk	M	Kinked short lead, Bulk	E
Inner crimped lead, Bulk	C		
Outer crimped lead, Bulk	J		
Double crimped lead, Bulk	W		
Straight long lead, taping	Z	Kinked straight, taping	N
Inner crimped lead, taping	R		
Outer crimped lead, taping	K		

Example: Discontinued ECKD3A102KBP => ECKA3A102KBP

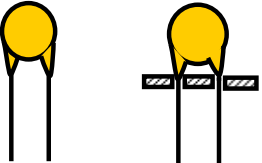
See below for the difference between 'kinked' versus 'straight' lead forming

Kinked leads are formed in such a way as being co-planar with the center line in the side view, which is not the case with Straight (or Crimped) lead-forming (see diagrams below)



and to the attached details regarding the other lead-forming styles

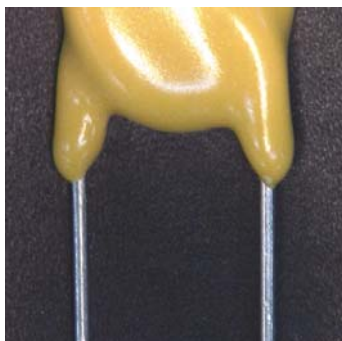
Differences and characteristics compared with the
current products and the standard Kinked type products

Type of current			Kinked type products	Characteristics
D	Straight long lead, bulk		A type (kinked long lead, bulk)	After inserted into PWB 1. To avoid the portion of the coating to be inserted into the lead hole of the PWB and to make sure to leak gas during soldering. 2. 1 to 2 mm higher.
				
M	Straight short lead, bulk		E type (kinked short lead, bulk)	After inserted into PWB 1. To avoid the portion of the coating to be inserted into the lead hole of the PWB and to make sure to leak gas during soldering. 2. M type is 1 to 2mm higher. Another has same height.
C	Inner crimped lead, bulk			
J	Outer crimped lead, bulk			
W	Double crimped lead, bulk			
Z	Straight lead, taping		N type (kinked lead, taping)	After inserted into PWB 1. To avoid the portion of the coating to be inserted into the lead hole of the PWB and to make sure to leak gas during soldering. 2. Z type is 1 to 2mm higher. Another has same height.
R	Inner crimped, taping			
K	Outer crimped, taping			

Current products

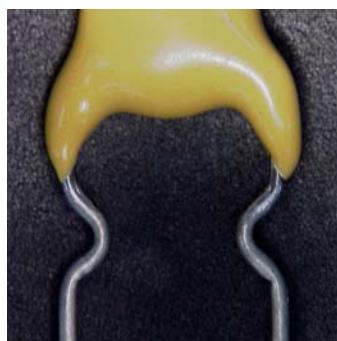
Straight lead type

D, M, Z



Inner crimped lead type

R, C



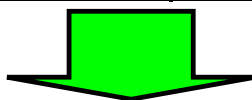
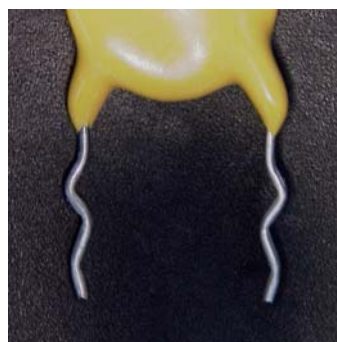
Outer crimped lead type

J, K

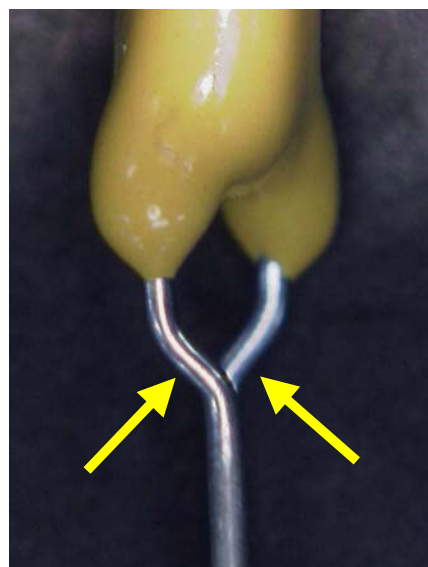


Double crimped lead type

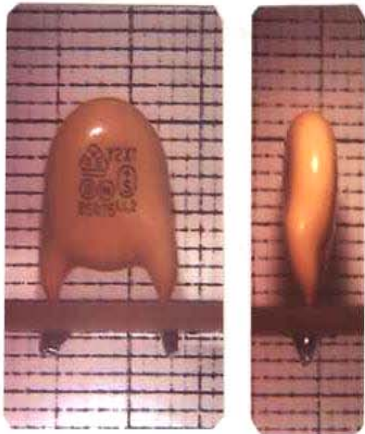
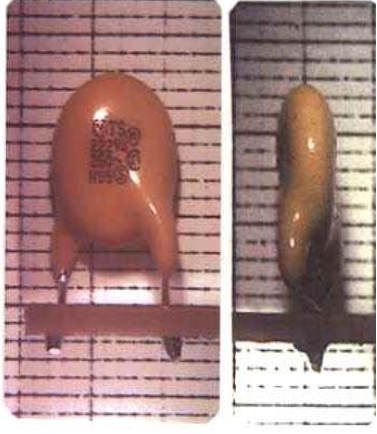
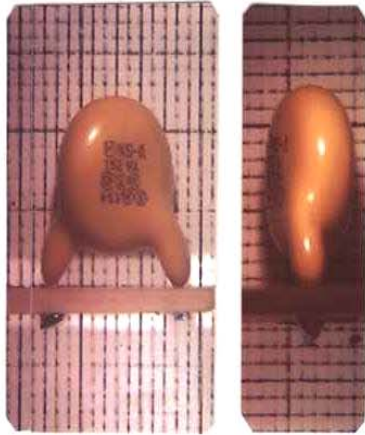
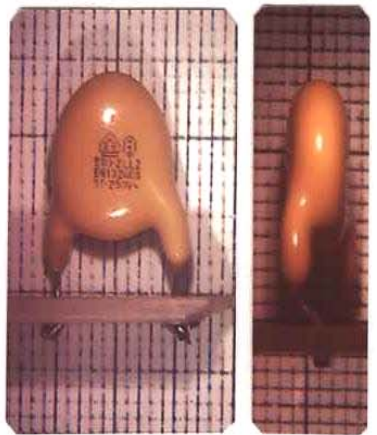
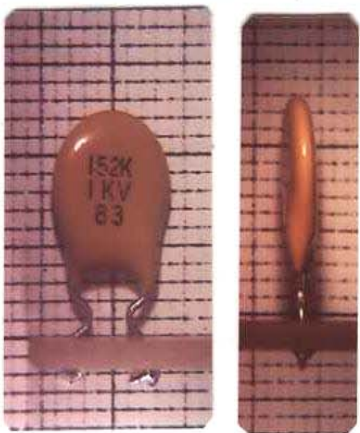
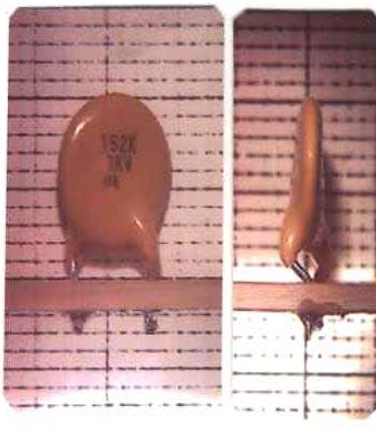
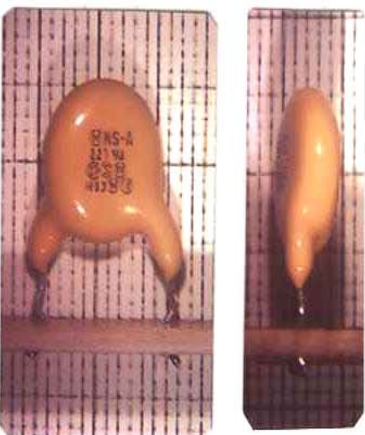
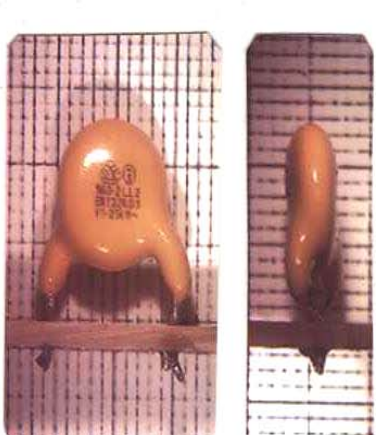
W

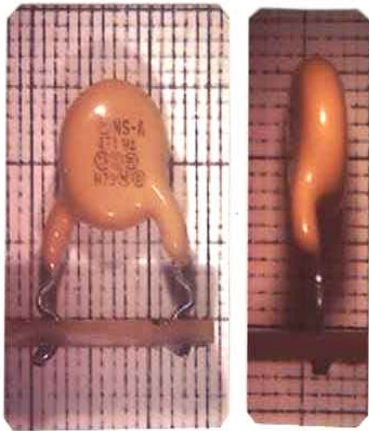
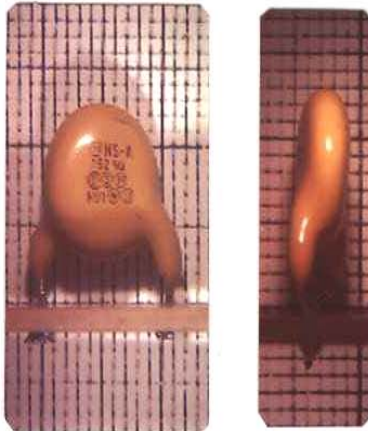
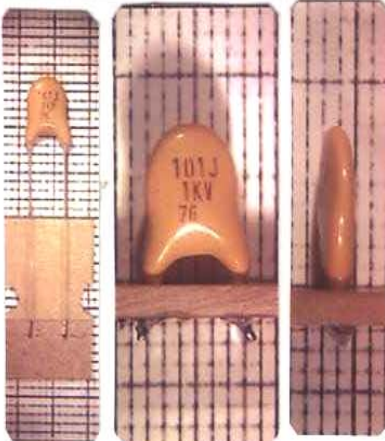
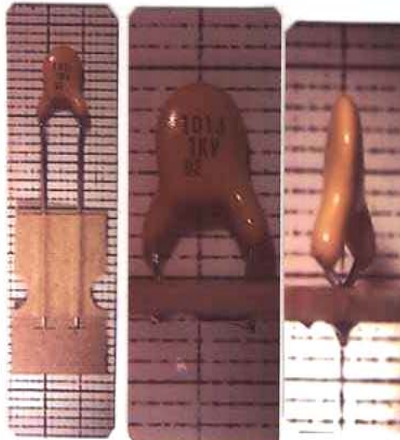
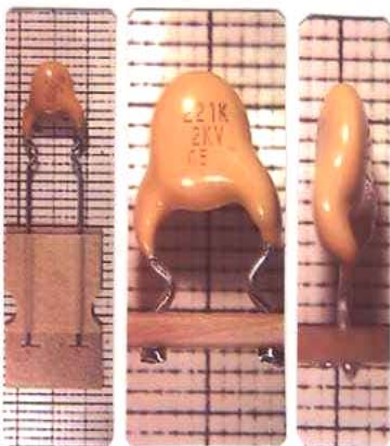
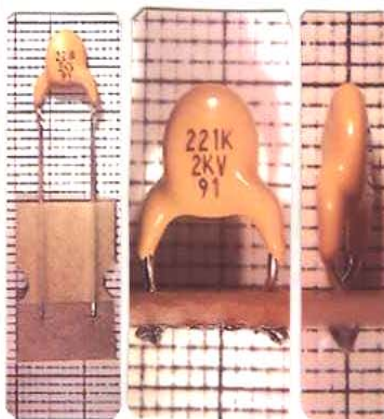
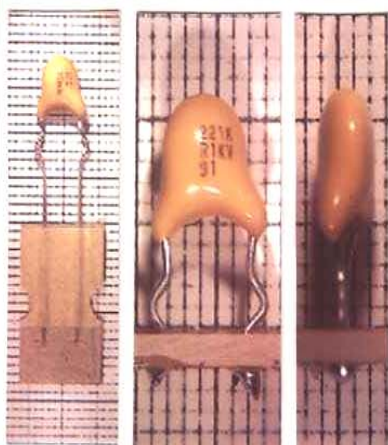
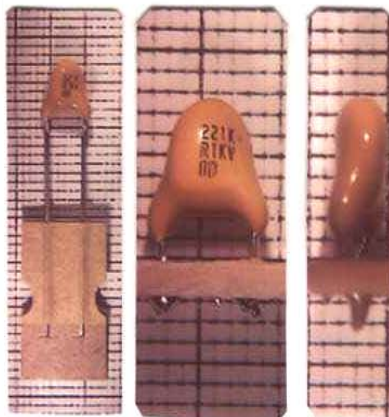


A, E, N, Kinked lead type (new standard)



Compared with the shape of the conventional lead, this new type is twisted against the surface of capacitor element and is formed the lead as a stopper preventing the lead insulating material portion from entering into the printed wiring board.

Current products			Kinked lead type	
D		→	A	
M		→	E	
C		→	E	
J		→	E	

Current products				Kinked lead type				
W				→	E			
Z				→	N			
R				→	N			
K				→	N			

Current part No	Kinked part No
ECC D 3A *** KGE	ECC A 3A *** KGE
ECC D 3D*** KGE	ECC A 3D*** KGE
ECC D 3F*** KGE	ECC A 3F*** KGE
ECC M 3A *** KGE	ECC E 3A *** KGE
ECC M 3D*** KGE	ECC E 3D*** KGE
ECC M 3F*** KGE	ECC E 3F*** KGE
ECC Z 3A *** KGE	ECC N 3A *** KGE
ECC Z 3D*** KGE	ECC N 3D*** KGE
ECC Z 3F*** KGE	ECC N 3F*** KGE
ECC C 3A *** KGE	ECC E 3A *** KGE
ECC C 3D*** KGE	ECC E 3D*** KGE
ECC C 3F*** KGE	ECC E 3F*** KGE
ECC R 3A *** KGE	ECC N 3A *** KGE
ECC R 3D*** KGE	ECC N 3D*** KGE
ECC R 3F*** KGE	ECC N 3F*** KGE
ECC K 3A *** KGE	ECC N 3A *** KGE
ECC K 3D*** KGE	ECC N 3D*** KGE
ECC K 3F*** KGE	ECC N 3F*** KGE
ECC W 3A *** KGE	ECC E 3A *** KGE
ECC W 3D*** KGE	ECC E 3D*** KGE
ECC W 3F*** KGE	ECC E 3F*** KGE
ECC J 3A *** KGE	ECC E 3A *** KGE
ECC J 3D*** KGE	ECC E 3D*** KGE
ECC J 3F*** KGE	ECC E 3F*** KGE

Current part No	Kinked part No
ECK D 3A *** KB	ECK A SA*** KB
ECK D 3D*** KB	ECK A SD*** KB
ECK D 3F*** KB	ECK A SF*** KB
ECK M 3A *** KB	ECK E SA*** KB
ECK M 3D*** KB	ECK E SD*** KB
ECK M 3F*** KB	ECK E SF*** KB
ECK Z 3A *** KB	ECK N SA*** KB
ECK Z 3D*** KB	ECK N SD*** KB
ECK Z 3F*** KB	ECK N SF*** KB
ECK C 3A *** KB	ECK E SA*** KB
ECK C 3D*** KB	ECK E SD*** KB
ECK C 3F*** KB	ECK E SF*** KB
ECK R 3A *** KB	ECK N SA*** KB
ECK R 3D*** KB	ECK N SD*** KB
ECK R 3F*** KB	ECK N SF*** KB
ECK K 3A *** KB	ECK N SA*** KB
ECK K 3D*** KB	ECK N SD*** KB
ECK K 3F*** KB	ECK N SF*** KB
ECK W 3A *** KB	ECK E SA*** KB
ECK W 3D*** KB	ECK E SD*** KB
ECK W 3F*** KB	ECK E SF*** KB
ECK J 3A *** KB	ECK E SA*** KB
ECK J 3D*** KB	ECK E SD*** KB
ECK J 3F*** KB	ECK E SF*** KB

ECC D 3A *** KBP	ECC A 3A *** KBP
ECC D 3D*** KBP	ECC A 3D*** KBP
ECC D 3F*** KBP	ECC A 3F*** KBP
ECC M 3A *** KBP	ECC E 3A *** KBP
ECC M 3D*** KBP	ECC E 3D*** KBP
ECC M 3F*** KBP	ECC E 3F*** KBP
ECC Z 3A *** KBP	ECC N 3A *** KBP
ECC Z 3D*** KBP	ECC N 3D*** KBP
ECC Z 3F*** KBP	ECC N 3F*** KBP
ECC C 3A *** KBP	ECC E 3A *** KBP
ECC C 3D*** KBP	ECC E 3D*** KBP
ECC C 3F*** KBP	ECC E 3F*** KBP
ECC R 3A *** KBP	ECC N 3A *** KBP
ECC R 3D*** KBP	ECC N 3D*** KBP
ECC R 3F*** KBP	ECC N 3F*** KBP
ECC K 3A *** KBP	ECC N 3A *** KBP
ECC K 3D*** KBP	ECC N 3D*** KBP
ECC K 3F*** KBP	ECC N 3F*** KBP
ECC W 3A *** KBP	ECC E 3A *** KBP
ECC W 3D*** KBP	ECC E 3D*** KBP
ECC W 3F*** KBP	ECC E 3F*** KBP
ECC J 3A *** KBP	ECC E 3A *** KBP
ECC J 3D*** KBP	ECC E 3D*** KBP
ECC J 3F*** KBP	ECC E 3F*** KBP

ECK D 3A *** MEH	ECK A 3A *** MEH
ECK D 3D*** MEH	ECK A 3D*** MEH
ECK D 3F*** MEH	ECK A 3F*** MEH
ECK M 3A *** MEH	ECK E 3A *** MEH
ECK M 3D*** MEH	ECK E 3D*** MEH
ECK M 3F*** MEH	ECK E 3F*** MEH
ECK Z 3A *** MEH	ECK N 3A *** MEH
ECK Z 3D*** MEH	ECK N 3D*** MEH
ECK Z 3F*** MEH	ECK N 3F*** MEH
ECK C 3A *** MEH	ECK E 3A *** MEH
ECK C 3D*** MEH	ECK E 3D*** MEH
ECK C 3F*** MEH	ECK E 3F*** MEH
ECK R 3A *** MEH	ECK N 3A *** MEH
ECK R 3D*** MEH	ECK N 3D*** MEH
ECK R 3F*** MEH	ECK N 3F*** MEH
ECK K 3A *** MEH	ECK N 3A *** MEH
ECK K 3D*** MEH	ECK N 3D*** MEH
ECK K 3F*** MEH	ECK N 3F*** MEH
ECK W 3A *** MEH	ECK E 3A *** MEH
ECK W 3D*** MEH	ECK E 3D*** MEH
ECK W 3F*** MEH	ECK E 3F*** MEH
ECK J 3A *** MEH	ECK E 3A *** MEH
ECK J 3D*** MEH	ECK E 3D*** MEH
ECK J 3F*** MEH	ECK E 3F*** MEH

Current part No	Kinked part No
ECK D HT*** KB	ECK A HT*** KB
ECK M HT*** KB	ECK E HT*** KB
ECK Z HT*** KB	ECK N HT*** KB
ECK C HT*** KB	ECK E HT*** KB
ECK R HT*** KB	ECK N HT*** KB
ECK K HT*** KB	ECK N HT*** KB
ECK W HT*** KB	ECK E HT*** KB
ECK J HT*** KB	ECK E HT*** KB

ECK D NA*** ME	ECK A NA*** ME
ECK M NA*** ME	ECK E NA*** ME
ECK Z NA*** ME	ECK N NA*** ME
ECK K NA*** ME	ECK N NA*** ME
ECK W NA*** ME	ECK E NA*** ME
ECK J NA*** ME	ECK E NA*** ME

ECK D NA*** _B	ECK A NA*** _B
ECK M NA*** _B	ECK E NA*** _B
ECK Z NA*** _B	ECK N NA*** _B
ECK K NA*** _B	ECK N NA*** _B
ECK W NA*** _B	ECK E NA*** _B
ECK J NA*** _B	ECK E NA*** _B

ECK D AE*** Z_	ECK A AE*** Z_
ECK M AE*** Z_	ECK E AE*** Z_
ECK Z AE*** Z_	ECK N AE*** Z_
ECK C AE*** Z_	ECK E AE*** Z_
ECK R AE*** Z_	ECK N AE*** Z_
ECK K AE*** Z_	ECK N AE*** Z_
ECK W AE*** Z_	ECK E AE*** Z_
ECK J AE*** Z_	ECK E AE*** Z_

ECK D BE*** Z_	ECK A BE*** Z_
ECK M BE*** Z_	ECK E BE*** Z_
ECK Z BE*** Z_	ECK N BE*** Z_
ECK C BE*** Z_	ECK E BE*** Z_
ECK R BE*** Z_	ECK N BE*** Z_
ECK K BE*** Z_	ECK N BE*** Z_
ECK W BE*** Z_	ECK E BE*** Z_
ECK J BE*** Z_	ECK E BE*** Z_

ECK D TS*** __	ECK A TS*** __
ECK M TS*** __	ECK E TS*** __
ECK Z TS*** __	ECK N TS*** __
ECK C TS*** __	ECK E TS*** __
ECK R TS*** __	ECK N TS*** __
ECK K TS*** __	ECK N TS*** __
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ECK J TS*** __	ECK E TS*** __