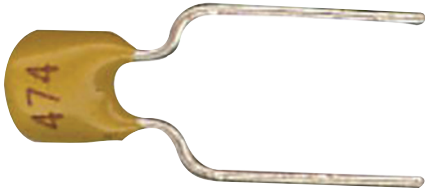


Multilayer Ceramic Capacitors Radial Type

multicomp PRO

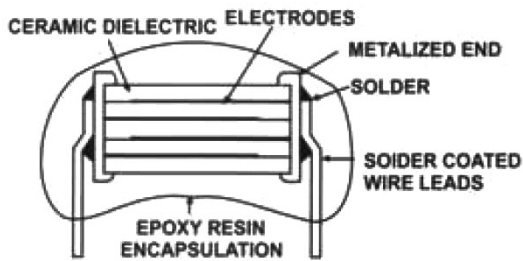
**RoHS
Compliant**



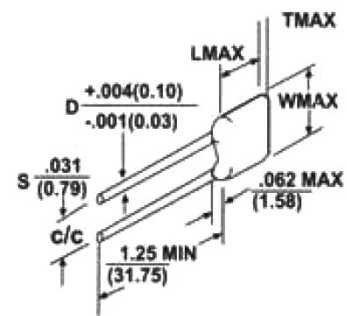
Description

Our radial leaded, Epoxy dipped Multilayer ceramic Capacitors are build by superior moisture and shock resistant epoxy coating can be supplied in bulk or taped and reel package for automatic insertion in PCB. Our MCMLR series capacitors have wide applications in computer, data processing telecommunication, industrial control and instrumentation equipment, etc.

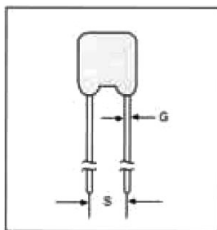
MONOLITHIC CONSTRUCTION



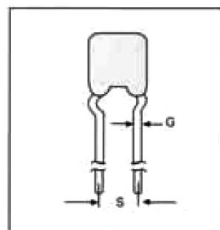
CASE SIZE



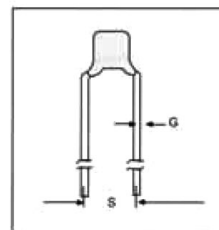
LEAD STYLES:



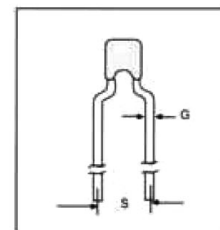
**STYLE L
STRAIGHT LEAD**



**STYLE K
OUTWARD KINK**



**STYLE A
SLOPE SEATED**



**STYLE H
HIGH SEATED
ASSEMBLY**

Size Code and Dimensions:

Size Code	L	W	T	Lead Diameter (G)	Lead Length (L)	Lead Spacing (S)	Lead Style
R15	0.15 (3.81)	0.15 (3.81)	0.1 (2.54)	0.2 (2.54)	0.1 (2.5)	0.1 (2.54)	L
					1 (25)	0.2 (5.08)	H.K.A
						0.3 (7.62)	H.
R20	0.2 (5.08)	0.2 (5.08)	0.125 (3.18)	0.2 (0.5)	0.1 (2.5)	0.1 (2.54)	L.K
					1 (25)	0.2 (5.08)	H.K
						0.25 (6.35)	H
						0.3 (7.62)	H

Dimensions : Inches (Millimetre)

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

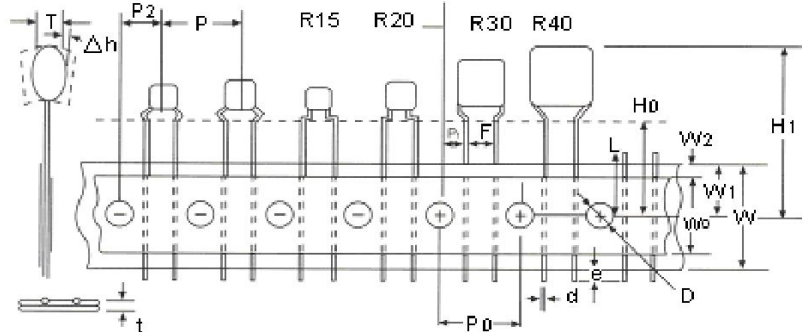
multicomp PRO

Multilayer Ceramic Capacitors Radial Type



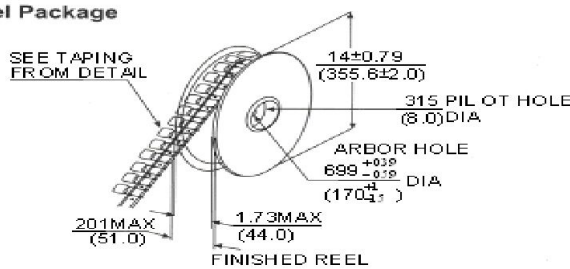
Radial Tape & Reel

Developed a tape and reel system of radially leaded components, which is suitable for the auto insertion machine

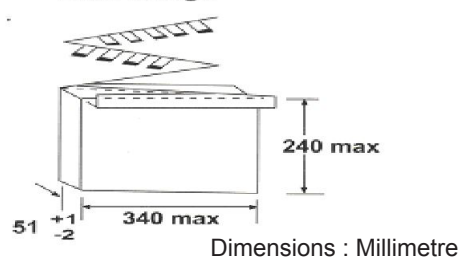


Description	Symbol	Dimensions	Description	Symbol	Dimensions
Body	A	0.4 × 0.4 [10.16 × 10.16] Max.	Feed hole pitch	P ₀	±.04 [±1.02] Accumulative pitch over two units.
Wire lead diameter (Mono-Kap)	d	0.02 ^{+0.0024} _{-0.0020} [0.51 ^{+0.06} _{-0.05}]	Feed hole off alignment	P ₁ P ₂	0.15 ±.02 [3.81±0.51] 0.25 ±.04 [6.35±1.02]
Feed Hole Diameter	D	0.157 ±0.012 (4 ±0.3)	Overall tape thickness	t	0.035 [0.89] Max.
Lead end protrusions	-	0 ⁺⁰ ₋₀ 120 ⁺⁰ _{-3.05}]	Body thickness	T	0.157 [3.99] Max.
Lead spacing	F	0.2 ±0.3 [5.08 ±0.76] 0.1 ±0.3 [2.54 ±0.76]	Lead crimp height	H ₀	0.63 ±0.02 to 0.71 ±.02 [16 ±.051 to 18 ±0.051]
Body inclination	h	0 ±0.4 [0 ±1.02]	Carrier tape width	W	0.71 ±0.02 [18.03 ±0.51]
Top height	H1	1.27 [32.25] Max.	Adhesive tape width	W ₀	0.51 [12.95] Reference
Rejected component out height	L	0.433 [11] Max.	Feed hole height off alignment	W ₁	0.35 ⁺⁰ _{-0.02} [8.89 ⁺⁰ _{-0.51}]
Taping pitch	P	0.5 ±0.39 [12.7±0.99]	Adhesive tape margin	W ₂	0.12 [3.05] Reference

Reel Package



Box Package



Packaging Quantity

Size Code	Taping Type		Bulk Type
	Quantity per reel	Quantity per box	Quantity per bag
R15	2,500	2,000	1,000
R20	2,500	2,000	1,000



Multilayer Ceramic Capacitors Radial Type



Part Number Table

Description	Part Number
Capacitor Ceramic 100PF 100V, C0G, 10%, RAD	MCMLR100V101KNPO
Capacitor Ceramic 1000PF 100V, C0G, 5%, RAD	MCMLR100V102JNPO
Capacitor Ceramic 0.01UF, 100V, X7R, 10%, RAD	MCMLR100V103KX7R
Capacitor Ceramic 0.1UF, 100V, X7R, 10%, RAD	MCMLR100V104KX7R
Capacitor Ceramic 2200PF, 100V, X7R, 10%, RAD	MCMLR100V222KX7R
Capacitor Ceramic 0.022UF, 100V, X7R, 10%, RAD	MCMLR100V223KX7R
Capacitor Ceramic 3300PF, 100V, X7R, 10%, RAD	MCMLR100V332KX7R
Capacitor Ceramic 10PF, 200V, C0G, 10%, RAD	MCMLR200V100KNPO
Capacitor Ceramic 100PF, 200V, C0G, 10%, RAD	MCMLR200V101KNPO
Capacitor Ceramic 1000PF, 200V, X7R, 10%, RAD	MCMLR200V102KX7R
Capacitor Ceramic 0.01UF, 200V, X7R, 10%, RAD	MCMLR200V103KX7R
Capacitor Ceramic 22PF, 200V, C0G, 5%, RAD	MCMLR200V220JNPO
Capacitor Ceramic 22PF, 200V, C0G, 10%, RAD	MCMLR200V220KNPO
Capacitor Ceramic 220PF, 200V, X7R, 10%, RAD	MCMLR200V221KX7R
Capacitor Ceramic 330PF, 200V, X7R, 10%, RAD	MCMLR200V331KX7R
Capacitor Ceramic 47PF, 200V, C0G, 10%, RAD	MCMLR200V470KNPO
Capacitor Ceramic 1000PF, 50V, X7R, 10%, RAD	MCMLR50V102KX7R
Capacitor Ceramic 0.01UF, 50V, X7R, 10%, RAD	MCMLR50V103KX7R
Capacitor Ceramic 0.01UF, 50V, X7R, 20%, RAD	MCMLR50V103MX7R
Capacitor Ceramic 0.01UF, 50V, Y5V, 20%, RAD	MCMLR50V103MY5V
Capacitor Ceramic 0.1UF, 50V, X7R, 10%, RAD	MCMLR50V104KX7R
Capacitor Ceramic 0.1UF, 50V, X7R, 20%, RAD	MCMLR50V104MX7R
Capacitor Ceramic 0.1UF, 50V, Y5V, 20%, RAD	MCMLR50V104MY5V
Capacitor Ceramic 1UF, 50V, X7R, 10%, RAD	MCMLR50V105KX7R
Capacitor Ceramic 1UF, 50V, Y5V, 20%, RAD	MCMLR50V105MY5V
Capacitor Ceramic 10UF, 50V, Y5V, RAD	MCMLR50V106ZY5V
Capacitor Ceramic 22PF 50V, C0G/NP0, 5%, RAD	MCMLR50V220JNPO
Capacitor Ceramic 0.22UF, 50V, X7R, 10%, RAD	MCMLR50V224KX7R
Capacitor Ceramic 0.22UF, 50V, X7R, 20%, RAD	MCMLR50V224MX7R
Capacitor Ceramic 0.22UF, 50V, Y5V, 20%, RAD	MCMLR50V224MY5V
Capacitor Ceramic 2.2UF, 50V, Y5V, 20%, RAD	MCMLR50V225MY5V
Capacitor Ceramic 0.33UF, 50V, X7R, 10% RAD	MCMLR50V334KX7R
Capacitor Ceramic 0.47UF, 50V, X7R, 10% RAD	MCMLR50V474KX7R
Capacitor Ceramic 0.47UF, 50V, Y5V, 20%, RAD	MCMLR50V474MY5V

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 Element14.com/multicomp-pro

