

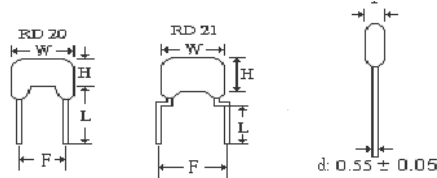
RADIAL LEADED MULTILAYER CERAMIC CAPACITOR

Features and Specification

Features:

1. MLC Radial Lead Capacitor (RD) has wide application in computer, data processing, telecommunication, industrial control and instrumentation equipment
2. The radial lead MLC is built with superior moisture, and shock resistant epoxy coating material, can be supplied in both, bulk or taping form for automatic insertion
3. RoHS compliance
4. Halogen free products are available

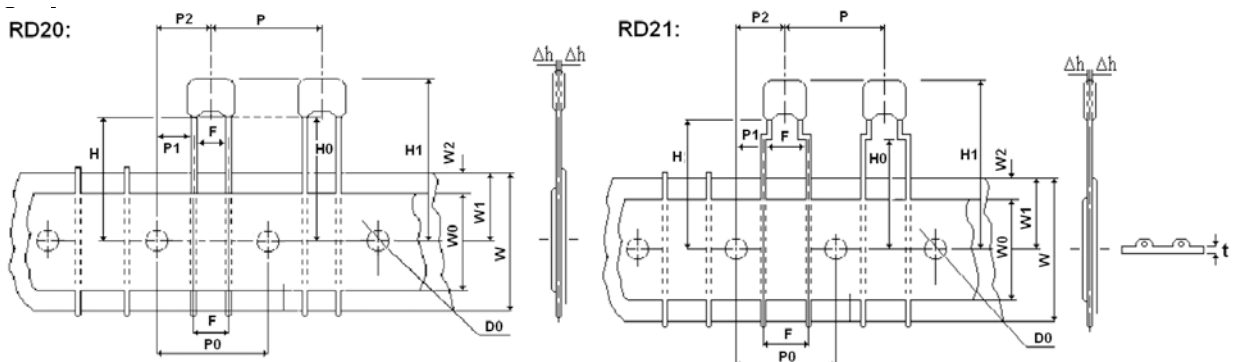
Lead configuration and dimension:



(Unit: mm)

Size	Width (W) Max.	Height (H)Max.	Thickness (T) Max.	Length (L)	Lead spacing for Taping (F)	Lead spacing for Bulk (F)	Lead diameter (d)
RD20	0805	5.5	5.5	4.0	Refer to the item ☉-1 SAP Part Number	2.5±1.0	0.55±0.05
	1206	6.5	5.5	4.0		2.54±1.0	
RD21	0805	5.5	5.5	4.0		5.0±1.0	
	1206	6.5	5.5	4.0		5.08±1.0	

Taping Specification:



ITEM	SYMBOL	DIMENSIONS (mm)	REMARKS
Pitch of Components	P	12.7 ± 1.0	
Feed hole pitch	P0	12.7 ± 0.3	Cumulative pitch error : ± 1.0mm / 20 pitches
Feed hole center to lead	P1	5.1 ± 0.7 (for RD20) 3.85 ± 0.7 (for RD21)	
Feed hole center to component center	P2	6.35 ± 1.3	
Lead diameter	d	0.55 ± 0.05	
Lead to lead spacing	F	2.5 ± 0.8 (for RD20) 5.0 ± 0.8 (for RD21)	To lead top within tolerance
Component alignment, F - R	Δh	2.0 max	The alignment from the center of the lead is ± 1.0mm
Tape width	W	18.0 -1.0 / -0.5	
Adhesive tape width	W0	11.0 min	
Hole position	W1	9.0 ± 0.5	
Adhesive tape position	W2	3.0 max	
Height of bottom body from tape center	H	18.0 + 2.0 / -0	H + 12.5 mm ≤ H1
Lead-wire clinch height	H0	18.0 ± 0.5 (for RD20) 16.0 ± 0.5 (for RD21)	6.5 ≤ H0 - W1
Component height	H1	32.25 max	
Feed hoe diameter	D0	4.0 ± 0.3	
Total tape thickness	T	0.7 ± 0.2	

Capacitance Range

Dielectric		NPO												
Size		0805						1206						
Voltage (VDC)		50	100	200	250	500	630	50	100	200	250	500	630	1000
Capacitance	1.0pF (010)	B	B	B	B	B	B							
	1.2pF (1R2)	B	B	B	B	B	B	B						
	1.5pF (1R5)	B	B	B	B	B	B	B	B	B	B	B	B	B
	1.8pF (1R8)	B	B	B	B	B	B	B	B	B	B	B	B	B
	2.2pF (2R2)	B	B	B	B	B	B	B	B	B	B	B	B	B
	2.7pF (2R7)	B	B	B	B	B	B	B	B	B	B	B	B	B
	3.3pF (3R3)	B	B	B	B	B	B	B	B	B	B	B	B	B
	3.9pF (3R9)	B	B	B	B	B	B	B	B	B	B	B	B	B
	4.7pF (4R7)	B	B	B	B	B	B	B	B	B	B	B	B	B
	5.6pF (5R6)	B	B	B	B	B	B	B	B	B	B	B	B	B
	6.8pF (6R8)	B	B	B	B	B	B	B	B	B	B	B	B	B
	8.2pF (8R2)	B	B	B	B	B	B	B	B	B	B	B	B	B
	10pF (100)	B	B	B	B	B	B	B	B	B	B	B	B	B
	12pF (120)	B	B	B	B	B	B	B	B	B	B	B	B	B
	15pF (150)	B	B	B	B	B	B	B	B	B	B	B	B	B
	18pF (180)	B	B	B	B	B	B	B	B	B	B	B	B	B
	22pF (220)	B	B	B	B	B	B	B	B	B	B	B	B	B
	27pF (270)	B	B	B	B	B	B	B	B	B	B	B	B	B
	33pF (330)	B	B	B	B	B	B	B	B	B	B	B	B	B
	39pF (390)	B	B	B	B	B	B	B	B	B	B	B	B	B
	47pF (470)	B	B	B	B	B	B	B	B	B	B	B	B	B
	56pF (560)	B	B	B	B	B	B	B	B	B	B	B	B	B
	68pF (680)	B	B	B	B	B	B	B	B	B	B	B	B	B
	82pF (820)	B	B	B	B	B	B	B	B	B	B	B	B	B
	100pF (101)	B	B	B	B	B	B	B	B	B	B	B	B	B
	120pF (121)	B	B	B	B	B	B	B	B	B	B	B	B	B
	150pF (151)	B	B	B	B	B	B	B	B	B	B	B	B	B
	180pF (181)	B	B	B	B	B	B	B	B	B	B	B	B	B
	220pF (221)	B	B	B	B	B	B	B	B	B	B	B	B	B
	270pF (271)	B	B	B	B	B	B	B	B	B	B	B	B	B
	330pF (331)	B	B	B	B	B	B	B	B	B	B	B	B	B
	390pF (391)	B	B	B	B	B	B	B	B	B	B	B	B	B
	470pF (471)	B	B	B	B	B	B	B	B	B	B	B	B	B
	560pF (561)	B	B	B	B	B	B	B	B	B	B	B	B	B
	680pF (681)	B	B	B	B	B	B	B	B	B	B	B	B	B
	820pF (821)	B	B	B	B	B	B	B	B	B	B	B	B	B
	1000pF (102)	B	B	B					B	B	B	B	B	B
	1200pF (122)	B	B						B	B	B	B	B	B
	1500pF (152)	B	B						B	B	B	B	B	B
	1800pF (182)	B	B						B	B	B	B	B	B
2200pF (222)	B	B						B	B	B	B	B	B	
2700pF (272)	B	B						B	B					
3300pF (332)	B	B						B	B					
3900pF (392)	B	B						B	B					
4700pF (472)	B	B						B	B					
5600pF (562)	B							B						
6800pF (682)	B							B						
8200pF (822)	B							B						
0.01uF (103)	B							B						

Dielectric		X7R												
Size		0805						1206						
Voltage (VDC)		50	100	200	250	500	630	50	100	200	250	500	630	1000
Capacitance	100pF (101)	B	B	B	B	B	B							
	120pF (121)	B	B	B	B	B	B							
	150pF (151)	B	B	B	B	B	B	B	B	B	B	B	B	B
	180pF (181)	B	B	B	B	B	B	B	B	B	B	B	B	B
	220pF (221)	B	B	B	B	B	B	B	B	B	B	B	B	B
	270pF (271)	B	B	B	B	B	B	B	B	B	B	B	B	B
	330pF (331)	B	B	B	B	B	B	B	B	B	B	B	B	B
	390pF (391)	B	B	B	B	B	B	B	B	B	B	B	B	B
	470pF (471)	B	B	B	B	B	B	B	B	B	B	B	B	B
	560pF (561)	B	B	B	B	B	B	B	B	B	B	B	B	B
	680pF (681)	B	B	B	B	B	B	B	B	B	B	B	B	B
	820pF (821)	B	B	B	B	B	B	B	B	B	B	B	B	B
	1000pF (102)	B	B	B	B	B	B	B	B	B	B	B	B	B
	1200pF (122)	B	B	B	B	B	B	B	B	B	B	B	B	B
	1500pF (152)	B	B	B	B	B	B	B	B	B	B	B	B	B
	1800pF (182)	B	B	B	B	B	B	B	B	B	B	B	B	B
	2200pF (222)	B	B	B	B	B	B	B	B	B	B	B	B	B
	2700pF (272)	B	B	B	B	B	B	B	B	B	B	B	B	B
	3300pF (332)	B	B	B	B	B	B	B	B	B	B	B	B	B
	3900pF (392)	B	B	B	B	B	B	B	B	B	B	B	B	B
	4700pF (472)	B	B	B	B	B	B	B	B	B	B	B	B	B
	5600pF (562)	B	B	B	B	B	B	B	B	B	B	B	B	B
	6800pF (682)	B	B	B	B	B	B	B	B	B	B	B	B	B
	8200pF (822)	B	B	B	B	B	B	B	B	B	B	B	B	B
	0.01uF (103)	B	B	B	B	B	B	B	B	B	B	B	B	B
	0.012uF (123)	B	B	B	B				B	B	B	B	B	B
	0.015uF (153)	B	B	B	B				B	B	B	B	B	B
	0.018uF (183)	B	B	B	B				B	B	B	B	B	B
	0.022uF (223)	B	B	B	B				B	B	B	B	B	B
	0.027uF (273)	B	B						B	B	B	B	B	B
	0.033uF (333)	B	B						B	B	B	B	B	B
	0.039uF (393)	B	B						B	B	B	B	B	B
	0.047uF (473)	B	B						B	B	B	B	B	B
	0.056uF (563)	B	B						B	B	B	B	B	B
	0.068uF (683)	B	B						B	B	B	B	B	B
	0.082uF (823)	B	B						B	B	B	B	B	B
	0.1uF (104)	B	B						B	B	B	B	B	B
	0.12uF (124)	B							B	B				
	0.15uF (154)	B							B	B				
	0.18uF (184)	B							B	B				
0.22uF (224)	B							B	B					
0.27uF (274)	B							B						
0.33uF (334)	B							B						
0.39uF (394)	B							B						
0.47uF (474)	B							B						
0.56uF (564)	B							B						
0.68uF (684)	B							B						
0.82uF (824)	B							B						
1.0uF (105)	B							B						

Dielectric		Y5V													
Size		0805						1206							
Voltage (VDC)		10	16	25	50	100	200	250	10	16	25	50	100	200	250
Capacitance	0.01uF (103)	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	0.015uF (153)	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	0.022uF (223)	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	0.033uF (333)	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	0.047uF (473)	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	0.068uF (683)	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	0.1uF (104)	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	0.15uF (154)	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	0.22uF (224)	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	0.33uF (334)	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	0.47uF (474)	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	0.68uF (684)	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	1.0uF (105)	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	1.5uF (155)	B	B						B	B	B	B	B	B	B
	2.2uF (225)	B	B	B					B	B	B	B	B	B	B
	3.3uF (335)	B	B						B	B	B	B	B	B	B
	4.7uF (475)	B	B	B					B	B	B	B	B	B	B
6.8uF (685)	B							B	B						
10uF (106)	B							B	B	B	B	B	B	B	
22uF (226)	B							B							

•The letter in cell is expressed the symbol of product terminations. B: (Cu/Ni/Sn)