



**THE DATASHEET OF
RDE5C3A331J2K1H03B**



● Part Numbering

Leaded MLCC

(Part Number)

RCE	R7	1H	104	K	O	M1	H03	A
①	②	③	④	⑤	⑥	⑦	⑧	⑨

① Series/Terminal

Code	
RHE	150°C Operation Leaded MLCC for Automotive (Powertrain/Safety)
RHS	200°C Operation Leaded MLCC for Automotive (Powertrain/Safety)
RDE	Leaded MLCC for Consumer Electronics & Industrial Equipment
RCE	Leaded MLCC for Automotive (Powertrain/Safety)

② Temperature Characteristics

Temperature Characteristic Codes			Temperature Characteristics			Operating Temperature Range
Code	Public STD Code		Reference Temperature	Temperature Range	Capacitance Change or Temperature Coefficient	
5C	C0G	EIA	25°C	25 to 125°C	0±30ppm/°C	-55 to 125°C
				-55 to 25°C	0+30/-72ppm/°C	
5G	X8G	*1	25°C	25 to 150°C	0±30ppm/°C	-55 to 150°C
				-55 to 25°C	0+30/-72ppm/°C	
7G	CCG	*1	25°C	-55 to 25°C	0+30/-72ppm/°C	-55 to 200°C
				25 to 125°C	0±30ppm/°C	
				125 to 200°C	0+72/-30ppm/°C	
7J	UNJ	*1	25°C	-55 to 25°C	-750+120/-347ppm/°C	-55 to 200°C
				25 to 125°C	-750±120ppm/°C	
				125 to 200°C	-750+347/-120ppm/°C	
7U	U2J	EIA	25°C	25 to 125°C *2	-750±120ppm/°C	-55 to 125°C
				-55 to 25°C	-750+120/-347ppm/°C	
C7	X7S	EIA	25°C	-55 to 125°C	±22%	-55 to 125°C
D7	X7T	EIA	25°C	-55 to 125°C	+22%, -33%	-55 to 125°C
L8	X8L	*1	25°C	-55 to 150°C	+15%, -40%	-55 to 150°C
R7	X7R	EIA	25°C	-55 to 125°C	±15%	-55 to 125°C
Q9	X9Q	*1	25°C	-55 to 200°C	+15%, -70%	-55 to 200°C

*1 Murata Temperature Characteristic Code.

*2 Rated Voltage 100Vdc max: 25 to 85°C

③ Rated Voltage

Code	Rated Voltage
1E	25Vdc
1H	50Vdc
2A	100Vdc
2D	200Vdc
2E	250Vdc
2W	450Vdc
2H	500Vdc
2J	630Vdc
3A	1kVdc

⑤ Capacitance Tolerance

Code	Capacitance Tolerance
C	±0.25pF
D	±0.5pF
J	±5%
K	±10%
M	±20%

④ Capacitance

Expressed by three figures. The unit is pico-farad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two numbers. If there is a decimal point, it is expressed by the capital letter "R." In this case, all figures are significant digits.

Continued on the following page. ↗

(Part Number)

RCE	R7	1H	104	K	0	M1	H03	A
1	2	3	4	5	6	7	8	9

Continued from the preceding page. ↘

⑥ Dimensions (LxW)

Code	Dimensions (LxW)	
0	RCE Series	3.6x3.5mm max.
	RHE Series	
	RHS Series	3.9x3.5mm max.
	RDE Series	4.0x3.5mm max. or 5.0x3.5mm max. (Depends on Part Number List)
1	RCE Series	4.0x3.5mm max.
	RHE Series	
	RHS Series	4.2x3.5mm max.
	RDE Series	4.5x3.5mm max. or 5.0x3.5mm max. (Depends on Part Number List)
2	5.5x4.0mm max.	
3	5.5x5.0mm max.	
4	7.5x5.5mm max.	
5	7.5x7.5mm max. (630Vdc, 1kVdc: 7.5x8.0mm max.)	
U	7.5x12.5mm max. (630Vdc, 1kVdc: 7.5x13.0mm max.)	
W	5.5x7.5mm max.	

⑦ Lead Style

Code	Lead Style	Lead Spacing
A2/A3	Straight Long	2.5mm
B1	Straight Long	5.0mm
DB/DG/DN	Straight Taping	2.5mm
E1	Straight Taping	5.0mm
K1	Inside Crimp	5.0mm
M1/M2	Inside Crimp Taping	5.0mm
P1	Outside Crimp	2.5mm
S1	Outside Crimp Taping	2.5mm

⑧ Individual Specification Code

Expressed by three figures

⑨ Packaging

Code	Packaging
A	Ammo Pack
B	Bulk

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