

# MURATA High Frequency Ceramic Chip Capacitors

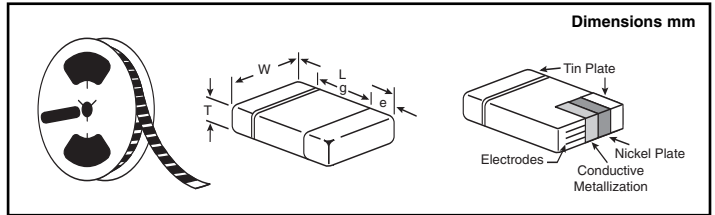


## ERB SERIES MULTILAYER, HIGH FREQUENCY, HIGH Q, LEAD FREE

**ERB SERIES:** Murata high Q capacitors come with higher Q and lower ESR - better than standard products of equivalent packages. They offer low ESR in the 1 MHz to 1 GHz frequency range. The ERB series of capacitors are designed with precious metal inner electrodes. These surface mount capacitors are available in voltages up to 500V. They are RoHS compliant.

- COG Dielectric
- Low ESR
- Operating Temperature: -55°C to +125°C

Part No.	L	W	T	e	g min.
ERB188	1.6 ±0.1	0.8 ±0.1	0.8 ±0.1	0.2 to 0.5	0.4
ERB21B	2.0 0.2	1.25 0.2	1.25 0.2	0.3 min	0.7
ERB32Q	3.2 0.3	2.5 0.2	1.5 +0,-0.3	0.3 min	1.2



Industry	Application
Communication Equipment	Base Station
	Bluetooth Modules
	PC Modules
	Cell Phones
Wireless	Wireless Handhelds
	Remote Keyless Entry
Security	Wireless LAN



Cross Reference			
Case Sizes	0603	0805	1210
ATC 600		X	
ATC 650	X		X
Johanson "C"	X	X	X

### ERB Series

Please call a Mouser representative for information of product not listed.

MOUSER STOCK NO.	Murata Part No.	Case Size	Value (pF)	Volt (DC)	Tolerance ±	Price Each				Reel Qty.	Price per Piece
						1	50	100	500		
81-ERB188C2D1R5BDX1D	ERB1885C2D1R5BDX1D	0603	1.5	200	±.1pF	.14	.13	.12	.10	4000	.05
81-ERB188C2D1R8BDX1D	ERB1885C2D1R8BDX1D	0603	1.8	200	±.1pF	.16	.15	.14	.12	4000	.06
81-ERB1885C2D2R0CDX1D	ERB1885C2D2R0CDX1D	0603	2.0	200	±.25pF	.14	.13	.12	.10	4000	.05
81-ERB1885C2D2R2BDX1D	ERB1885C2D2R2BDX1D	0603	2.2	200	±.1pF	.16	.15	.14	.12	4000	.06
81-ERB1885C2D3R9BDX1D	ERB1885C2D3R9BDX1D	0603	3.9	200	±.1pF	.17	.16	.15	.13	4000	.07
81-ERB188C2D4R3CDX1D	ERB1885C2D4R3CDX1D	0603	4.3	200	±.25pF	.10	.08	.06	.05	4000	.04
81-ERB188C2D4R7BDX1D	ERB1885C2D4R7BDX1D	0603	4.7	200	±.1pF	.20	.19	.18	.16	4000	.08
81-ERB188C2D5R1CDX1D	ERB1885C2D5R1CDX1D	0603	5.1	200	±.25pF	.15	.13	.09	.08	4000	.06
81-ERB188C2D5R6CDX1D	ERB1885C2D5R6CDX1D	0603	5.6	200	±.25pF	.12	.10	.07	.06	4000	.05
81-ERB188C2D6R2CDX1D	ERB1885C2D6R2CDX1D	0603	6.2	200	±.25pF	.12	.10	.07	.06	4000	.05
81-ERB1885C2D6R8CDX1D	ERB1885C2D6R8CDX1D	0603	6.8	200	±.25pF	.14	.13	.12	.11	4000	.08
81-ERB21B5C2D1R0CDX1L	ERB21B5C2D1R0CDX1L	0805	1.0	200	±.25pF	.28	.24	.21	.17	3000	.16
81-ERB21B5C2D1R2CL	ERB21B5C2D1R2CDX1L	0805	1.2	200	±.25pF	.24	.21	.18	.15	3000	.13
81-ERB21B5C2D1R6CL	ERB21B5C2D1R6CDX1L	0805	1.6	200	±.25pF	.24	.21	.18	.15	3000	.13
81-ERB21B5C2D1R8CL	ERB21B5C2D1R8CDX1L	0805	1.8	200	±.25pF	.24	.21	.18	.15	3000	.13
81-ERB21B5C2D2R0CL	ERB21B5C2D2R0CDX1L	0805	2.0	200	±.25pF	.24	.21	.18	.15	3000	.13
81-ERB21B5C2D2R2CDX1L	ERB21B5C2D2R2CDX1L	0805	2.2	200	±.25pF	.24	.21	.18	.15	3000	.13
81-ERB21B5C2D2R7CDX1L	ERB21B5C2D2R7CDX1L	0805	2.7	200	±.25pF	.27	.22	.16	.14	3000	.12
81-ERB21B5C2D3R0CDX1L	ERB21B5C2D3R0CDX1L	0805	3.0	200	±.25pF	.21	.19	.17	.15	3000	.13
81-ERB21B5C2D3R3CDX1L	ERB21B5C2D3R3CDX1L	0805	3.3	200	±.25pF	.33	.32	.30	.26	3000	.15
81-ERB21B5C2D3R6CL	ERB21B5C2D3R6CDX1L	0805	3.6	200	±.25pF	.33	.32	.30	.26	3000	.15
81-ERB21B5C2D3R9CDX1L	ERB21B5C2D3R9CDX1L	0805	3.9	200	±.25pF	.36	.34	.32	.27	3000	.16
81-ERB21B5C2D5R1CDX1L	ERB21B5C2D5R1CDX1L	0805	5.1	200	±.25pF	.31	.30	.28	.24	3000	.14
81-ERB21B5C2D5R6DDX1L	ERB21B5C2D5R6DDX1L	0805	5.6	200	±.5pF	.33	.32	.30	.26	3000	.15
81-ERB21B5C2D6R2DDX1L	ERB21B5C2D6R2DDX1L	0805	6.2	200	±.5pF	.33	.32	.30	.26	3000	.15
81-ERB21B5C2D8R2DDX1L	ERB21B5C2D8R2DDX1L	0805	8.2	200	±.5pF	.37	.35	.34	.29	3000	.17
81-ERB21B5C2D100JDX1L	ERB21B5C2D100JDX1L	0805	10	200	±5%	.19	.18	.17	.15	3000	.09
81-ERB21B5C2D120JDX1L	ERB21B5C2D120JDX1L	0805	12	200	±5%	.35	.33	.32	.27	3000	.16
81-ERB21B5C2D150JDX1L	ERB21B5C2D150JDX1L	0805	15	200	±5%	.33	.32	.30	.26	3000	.15
81-ERB21B5C2D180JDX1L	ERB21B5C2D180JDX1L	0805	18	200	±5%	.36	.34	.32	.27	3000	.16
81-ERB21B5C2D220JDX1L	ERB21B5C2D220JDX1L	0805	22	200	±5%	.38	.36	.34	.29	3000	.17
81-ERB21B5C2D330JDX1L	ERB21B5C2D330JDX1L	0805	33	200	±5%	.33	.32	.30	.26	3000	.15
81-ERB21B5C2D390JDX1L	ERB21B5C2D390JDX1L	0805	39	200	±5%	.36	.34	.32	.27	3000	.16
81-ERB21B5C2D430JDX1L	ERB21B5C2D430JDX1L	0805	43	200	±5%	.28	.23	.16	.14	3000	.12
81-ERB21B5C2D470JDX1L	ERB21B5C2D470JDX1L	0805	47	200	±5%	.29	.24	.17	.15	3000	.13
81-ERB21B5C2D510JDX1L	ERB21B5C2D510JDX1L	0805	51	200	±5%	.31	.25	.18	.16	3000	.13
81-ERB21B5C2D560JDX1L	ERB21B5C2D560JDX1L	0805	56	200	±5%	.41	.37	.34	.31	3000	.25
81-ERB21B5C2D620JDX1L	ERB21B5C2D620JDX1L	0805	62	200	±5%	.41	.37	.34	.31	3000	.25
81-ERB21B5C2D680JDX1L	ERB21B5C2D680JDX1L	0805	68	200	±5%	.41	.37	.34	.31	3000	.25
81-ERB21B5C2D750JDX1L	ERB21B5C2D750JDX1L	0805	75	200	±5%	.41	.37	.34	.31	3000	.25
81-ERB21B5C2D820JDX1L	ERB21B5C2D820JDX1L	0805	82	200	±5%	.41	.37	.34	.31	3000	.25
81-ERB21B5C2D910JDX1L	ERB21B5C2D910JDX1L	0805	91	200	±5%	.41	.33	.24	.21	3000	.18
81-ERB21B5C2D101JDX1L	ERB21B5C2D101JDX1L	0805	100	200	±5%	1.52	1.01	.71	.41	3000	.21
81-ERB21B5C2A121JDX1L	ERB21B5C2A121JDX1L	0805	120	100	±5%	.52	.47	.43	.39	3000	.32
81-ERB21B5C2A131JL	ERB21B5C2A131JDX1L	0805	130	100	±5%	.52	.47	.43	.39	3000	.34
81-ERB21B5C2A141JL	ERB21B5C2A141JDX1L	0805	140	100	±5%	.52	.47	.43	.39	3000	.34
81-ERB21B5C1H151JDX1L	ERB21B5C1H151JDX1L	0805	150	50	±5%	.48	.39	.27	.24	3000	.20
81-ERB32Q5C2H3R3CDX1L	ERB32Q5C2H3R3CDX1L	1210	3.3	500	±5%	.63	.57	.52	.47	2000	.39
81-ERB32Q5C2H4R7CDX1L	ERB32Q5C2H4R7CDX1L	1210	4.7	500	±5%	.63	.57	.52	.47	2000	.39
81-ERB32Q5C2H5R1CDX1L	ERB32Q5C2H5R1CDX1L	1210	5.1	500	±5%	.63	.57	.52	.47	2000	.39
81-ERB32Q5C2H100JDX1L	ERB32Q5C2H100JDX1L	1210	10	500	±5%	.63	.57	.52	.47	2000	.39
81-ERB32Q5C2H120JDX1L	ERB32Q5C2H120JDX1L	1210	12	500	±5%	.58	.55	.52	.44	2000	.26
81-ERB32Q5C2H150JDX1L	ERB32Q5C2H150JDX1L	1210	15	500	±5%	.58	.55	.52	.44	2000	.26
81-ERB32Q5C2H180JDX1L	ERB32Q5C2H180JDX1L	1210	18	500	±5%	.58	.55	.52	.44	2000	.26
81-ERB32Q5C2H220JDX1L	ERB32Q5C2H220JDX1L	1210	22	500	±5%	.67	.64	.61	.52	2000	.30
81-ERB32Q5C2H360JDX1L	ERB32Q5C2H360JDX1L	1210	36	500	±5%	.58	.55	.52	.44	2000	.26
81-ERB32Q5C2H390JDX1L	ERB32Q5C2H390JDX1L	1210	39	500	±5%	.62	.59	.56	.48	2000	.28
81-ERB32Q5C2H470JDX1L	ERB32Q5C2H470JDX1L	1210	47	500	±5%	.62	.59	.56	.48	2000	.28
81-ERB32Q5C2H560JDX1L	ERB32Q5C2H560JDX1L	1210	56	500	±5%	.62	.59	.56	.48	2000	.28
81-ERB32Q5C2H680JDX1L	ERB32Q5C2H680JDX1L	1210	68	500	±5%	.66	.63	.60	.51	2000	.30
81-ERB32Q5C2H101JDX1L	ERB32Q5C2H101JDX1L	1210	100	500	±5%	.80	.77	.73	.62	2000	.37
81-ERB32Q5C2H121JDX1L	ERB32Q5C2H121JDX1L	1210	120	500	±5%	.90	.86	.82	.69	2000	.41
81-ERB32Q5C2D221JDX1L	ERB32Q5C2D221JDX1L	1210	220	200	±5%	1.07	1.02	.97	.83	2000	.49
81-ERB32Q5C2A471JDX1L	ERB32Q5C2A471JDX1L	1210	470	100	±5%	1.39	1.33	1.27	1.08	2000	.63
81-ERB32Q5C1H102JDX1L	ERB32Q5C1H102JDX1L	1210	1000	50	±5%	1.49	1.30	1.11	.93	2000	.76

