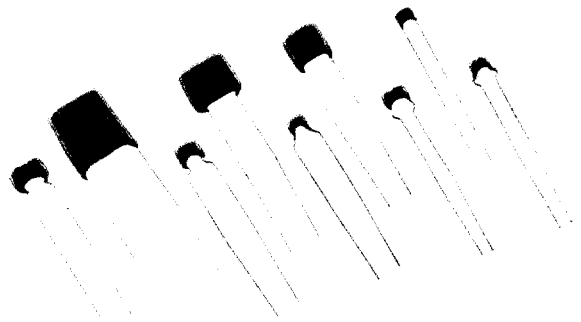
LEADED CAPACITORS, NETWORKS & HV CAPACITORS
MONOLITHIC LEADED CAPACITORS
CERAMIC RADIAL LEADED CAPACITORS

RPE 110/113/114/117/121/ 122/123/131/132 Series



FEATURES

- Wide capacitance, T.C., voltage and tolerance range
- Industry standard sizes
- Tape and reel available for auto insertion
- Various lead spacing available
- Marking standard or to customer specification
- Epoxy coating meets UL94V-0

PART NUMBERING SYSTEM

RPE 132	XXX	X7R	103	K	050V	A
CAPACITOR TYPE AND SIZE	Used only for taped product and other lead variations. Please contact the factory for more information.	**TEMPERATURE CHARACTERISTICS** C0G = 0 ±30ppm (Note 1) X7R = ±15% Z5U = +22, −56% Y5V = +22, −82% P2H = N150 ± 60ppm R2H = N220 ± 60ppm S2H = N330 ± 60ppm T2H = N470 ± 60ppm U2J = N750 ± 120ppm	**CAPACITANCE VALUE** Expressed in picofarads and identified by a three-digit number. First two digits represent significant figures. Last digit specifies the number of zeros to follow. For the fractional values below 10pF, the letter "R" is used as the decimal point and the last digit becomes significant.	**CAPACITANCE TOLERANCE** C0G: 5pF or less C = ±.25pF >5pF ≤ 10pF D = ±.5pF >10pF J = ±5% X7R: K = ±10% Z5U: M = ±20% Y5V: Z = +80, −20%	**VOLTAGE** Identified by a three digit number. 50 and 100V standard (200V on special request)	**AMMO PACK*** (Does not include 110 & 117 series)

NOTE: T.C. Tolerance

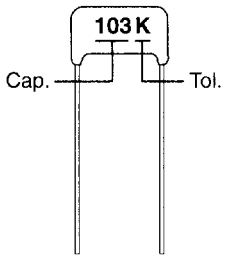
Capacitance (pF)	T.C. Tolerance (ppm)
10 and over	± 30 (G)
4.0–9.9	± 60 (H)
2.1–3.9	±120 (J)
.4–2.0	±250 (K)

Refer to EIA RS-198 for limitations.

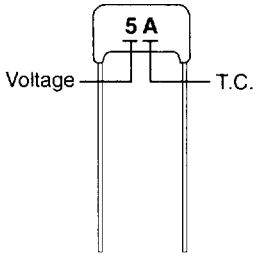
*Ammo pack is the standard for taped parts. Reel packing is optional.

MARKINGS

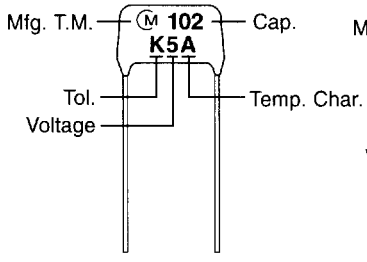
RPE 110, 131, 132 (Front)



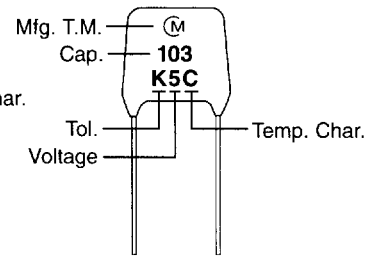
RPE 110, 131, 132 (Back)



RPE 121, 122, 123



RPE 113, 114, 117



Voltage Code
2 = 25V, 5 = 50V
1 = 100V, 6 = 200V

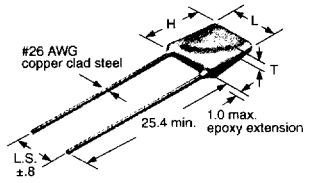
RPE 110, 131, 132: Cap. and Tol. only for X7R, Z5U and Y5V materials.

Temp. Char. Code
A = COG, P = P2H, R = R2H,
S = S2H, T = T2H, U = U2J, C = X7R,
E = Z5U, F = Y5V

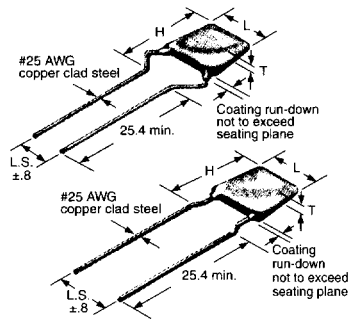
Both sides marked for temperature compensating RPE 110, 131 and 132 capacitors

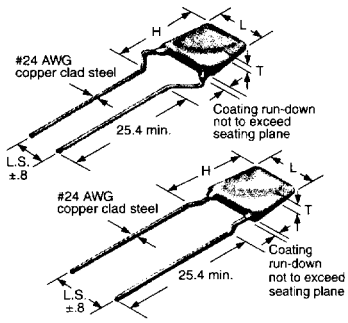
Note: High Reliability RPE Capacitors available. See page 136.

DIMENSIONS: mm



Note: Lead length is measured from the bottom of the capacitor.



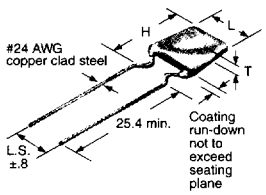


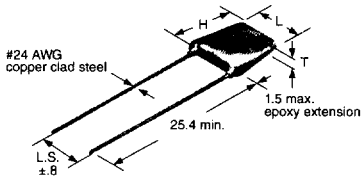
MURATA DESIGNATION	★RPE 110†			★RPE 131/RPE 132			★RPE 121/RPE 122*		
L (max.)	3.5			5.1			5.1		
H (max.)	3.1			5.1			6.4		
T (max.)	2.5			3.2			3.2		
L.S.	2.5			2.5/5.1			2.5/5.1		
WVDC	50	100	200	50	100	200	50	100	200
CAPACITANCE									
1	1	1	1	1	1	1	1	1	1
(pF) 1.0									
10									
100			120			390	N/A		430
1000	2200	820		5600	2200			2400	1000
(μF) .01								3900	

★EIA values available as standard through authorized Murata Electronics Distributors.
† Bulk only.
*Non-preferred, use RPE 131/132.

Note: Capacitance values = EIA 24 Step = 10, 11, 12, 13, 15, 16, 18, 20, 22, 24, 27, 30, 33, 36, 39, 43, 47, 51, 56, 62, 68, 75, 82, 91
For values under 1.0pF, contact your local Murata Electronics Sales Office.

DIMENSIONS: mm

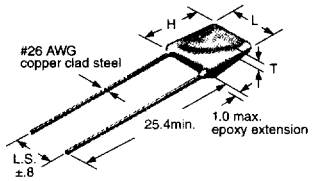
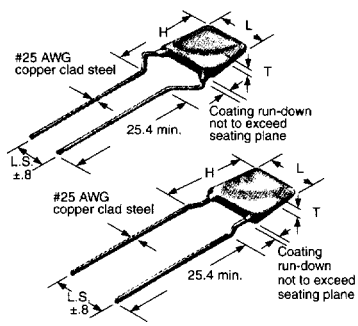
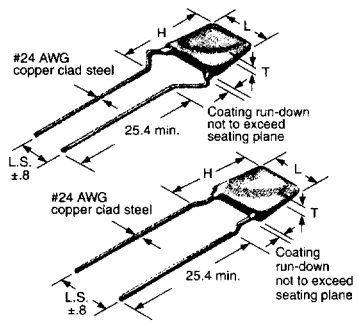




Standard package and lead configurations shown. Other variations and tape and reel data are displayed on pages 69-70. All RPE wire is tinned copper clad steel wire. For other requirements, please contact your local sales office.

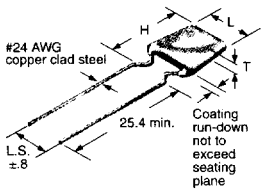
MURATA DESIGNATION	★RPE 123			★RPE 113			★RPE 114			★RPE 117†		
L (max.)	7.6			7.6			10.2			12.7		
H (max.)	7.0			7.6			10.2			12.7		
T (max.)	3.2			4.0			4.0			5.1		
L.S.	5.1			5.1			5.1			10.2		
WVDC	50	100	200	50	100	200	50	100	200	50	100	200
CAPACITANCE												
(pF) 1.0												
10												
100												
1000	5600	4700	1100			1600			4300			.011
			1500			3900						
(μF) .01	.015	6800		.016	7500		.020	.013	.010	.043	.036	.030
				.018	.012		.039	.033		.068	.056	

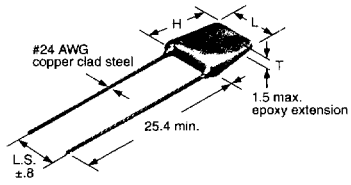
★EIA values available as standard through authorized Murata Electronics Distributors.
† Bulk only.
Note: Capacitance values = EIA 24 Step = 10, 11, 12, 13, 15, 16, 18, 20, 22, 24, 27, 30, 33, 36, 39, 43, 47, 51, 56, 62. 68, 75, 82, 91
For values under 1.0pF, contact your local Murata Electronics Sales Office.

DIMENSIONS: mm									
MURATA DESIGNATION	**★RPE 110†**			**★RPE 131/RPE 132**			**★RPE 121/RPE 122***		
L (max.)	3.5			5.1			5.1		
H (max.)	3.1			5.1			6.4		
T (max.)	2.5			3.2			3.2		
L.S.	2.5			2.5/5.1			2.5/5.1		
WVDC	**50**	**100**	**200**	**50**	**100**	**200**	**50**	**100**	**200**
CAPACITANCE									
(pF) 100	220	220	220	220	220	220			
1000			4700						.012
(μF) .01		.010			.033	.01		.036	.047
.1	.1			.22			.22	.1	
1.0							1.0		

★EIA values available as standard through authorized Murata Electronics Distributors.
*Non-preferred, use RPE 131/132.
★EIA values available as standard through authorized Murata Electronics Distributors.
† Bulk only.
Note: Capacitance values = EIA 12 Step = 10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82

DIMENSIONS: mm





Standard package and lead configurations shown. Other variations and tape and reel data are displayed on pages 69-70. All RPE wire is tinned copper clad steel wire. For other requirements, please contact your local sales office.

MURATA DESIGNATION	★RPE 123			★RPE 113			★RPE 114			★RPE 117†		
L (max.)	7.6			7.6			10.2			12.7		
H (max.)	7.0			7.6			10.2			12.7		
T (max.)	3.2			4.0			4.0			5.1		
L.S.	5.1			5.1			5.1			10.2		
WVDC	50	100	200	50	100	200	50	100	200	50	100	200
CAPACITANCE												
(pF) 100												
1000												
(μF) .01			.056									
.1	.NA	.12	.082	.NA	.18	.1			.22			.68
1.0		.15			.47	.18	1.2	.56	.56	2.2	1.2	1.8
							1.8	1.0		3.3	2.2	

For requirements not shown, please contact your local Murata Electronics Sales Office.
★EIA values available as standard through authorized Murata Electronics Distributors.
† Bulk only.
Note: Capacitance values = EIA 12 Step = 10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82

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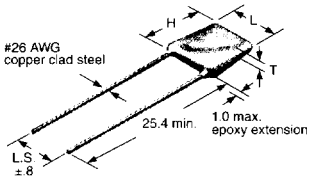
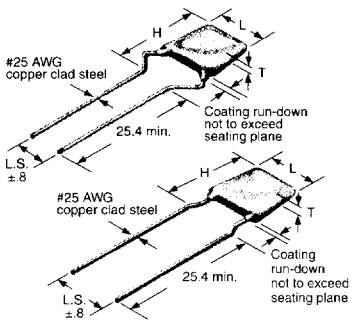
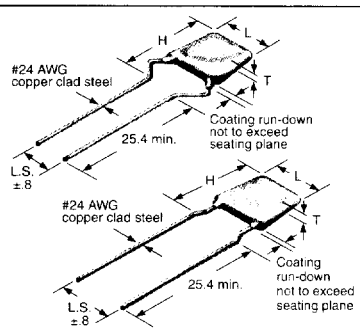
Innovator in Electronics

RPE 110/131/132/121/122 Series

DIMENSIONS: mm



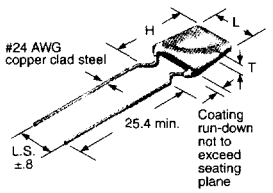


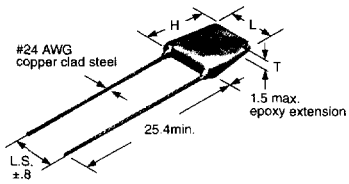


MURATA DESIGNATION	★RPE 110†			★RPE 131/RPE 132			★RPE 121/RPE 122*		
L (max.)	3.5			5.1			5.1		
H (max.)	3.1			5.1			6.4		
T (max.)	2.5			3.2			3.2		
L.S.	2.5			2.5/5.1			2.5/5.1		
WVDC	50	100	200	50	100	200	50	100	200
CAPACITANCE									
(pF) 1000	1000	1000	1000	1000	1000	1000			
			3300			6800			.01
(μF) .01		.015			.033			.36	
									.068
.1	.15			.15			.22	.15	
							.47		
1.0									
10.0									

★EIA values available as standard through authorized Murata Electronics Distributors.
*Non-preferred, use RPE 131/132.
★EIA values available as standard through authorized Murata Electronics Distributors.
† Bulk only.
Note: Capacitance values = EIA 6 Step = 10, 15, 22, 33, 47, 68

DIMENSIONS: mm

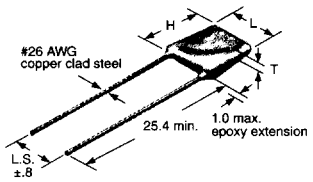
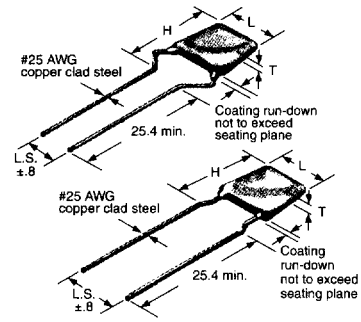
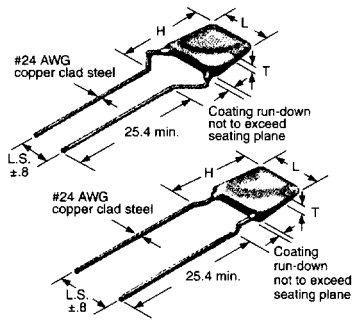




Standard package and lead configurations shown. Other variations and tape and reel data are displayed on pages 69-70. All RPE wire is tinned copper clad steel wire. For other requirements, please contact your local sales office.

MURATA DESIGNATION	★RPE 123				★RPE 113			★RPE 114			★RPE 117†		
L (max.)	7.6				7.6			10.2			12.7		
H (max.)	7.0				7.6			10.2			12.7		
T (max.)	3.2				4.0			4.0			5.1		
L.S.	5.1				5.1			5.1			10.2		
WVDC	25	50	100	200	50	100	200	50	100	200	50	100	200
CAPACITANCE													
(pF) 1000													
(μF) .01							.068						
.1			N/A	N/A	N/A	.22	.10			.15			.47
		.47				.47			.68	.33			.68
1.0	1.0	1.0						1.5	1.0		2.2	1.5	
	1.5							2.2			4.7	2.2	
10.0													

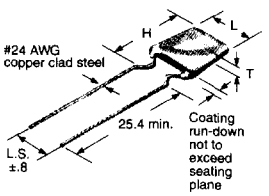
For requirements not shown, please contact your local Murata Electronics Sales Office.
★EIA values available as standard through authorized Murata Electronics Distributors.
† Bulk only.
Note: Capacitance values = EIA 6 Step = 10, 15, 22, 33, 47, 68

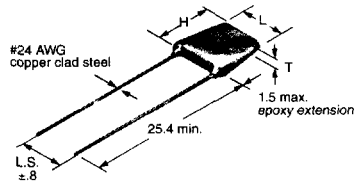
DIMENSIONS: mm									
MURATA DESIGNATION	**★RPE 110†**			**★RPE 131/RPE 132**			**★RPE 121/RPE 122**		
L (max.)	3.5			5.1			5.1		
H (max.)	3.1			5.1			6.4		
T (max.)	2.5			3.2			3.2		
L.S.	2.5			2.5/5.1			2.5/5.1		
WVDC	**50**	**100**	**200**	**50**	**100**	**200**	**50**	**100**	**200**
CAPACITANCE									
(pF) 1000									
(μF) .01	.01	.01	N/A	.01	.01	N/A			N/A
.1	.22	.015		.22	.033		.24	.036	
1.0							.47	.047	
10.0									

For requirements not shown, please contact your local Murata Electronics Sales Office.
★EIA values available as standard through authorized Murata Electronics Distributors.
† Bulk only.
Note: Capacitance values = EIA 6 Step = 10, 15, 22, 33, 47, 68

*Non-preferred, use RPE 131/132.

DIMENSIONS: mm

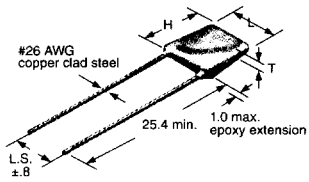




Standard package and lead configurations shown. Other variations and tape and reel data are displayed on pages 69-70. All RPE wire is tinned copper clad steel wire. For other requirements, please contact your local sales office.

MURATA DESIGNATION	★RPE 123			★RPE 113			★RPE 114			★RPE 117†		
L (max.)	7.6			7.6			10.2			12.7		
H (max.)	7.0			7.6			10.2			12.7		
T (max.)	3.2			4.0			4.0			5.1		
L.S.	5.1			5.1			5.1			10.2		
WVDC	50	100	200	50	100	200	50	100	200	50	100	200
CAPACITANCE												
(pF) 1000												
(μF) .01		.1	N/A	N/A		N/A			N/A	N/A		N/A
.1	.47	.15			.22			.68			1.5	
1.0	1.0				.47		1.5	1.0			2.2	
10.0							4.7					

For requirements not shown, please contact your local Murata Electronics Sales Office.
★EIA values available as standard through authorized Murata Electronics Distributors.
† Bulk only.
Note: Capacitance values = EIA 6 Step = 10, 15, 22, 33, 47, 68

DIMENSIONS: mm		
MURATA DESIGNATION	**★RPE 110**	
L (max.)	3.5	
H (max.)	3.1	
T (max.)	2.5	
L.S.	2.5	
WVDC	**50**	**100**
TC: N150 (P2H) Cap. Range: (pF) non-preferred	1 – 360	1 – 360
TC: N220 (R2H) Cap. Range: (pF)	1 – 560	1 – 560
TC: N330 (S2H) Cap. Range: (pF) non-preferred	1 – 470	1 – 430
TC N470 (T2H) Cap. Range: (pF) non-preferred	1 – 390	1 – 510
TC: N750 (U2J) Cap. Range: (pF)	1 – 1800	1 – 820

Note: Capacitance values = EIA 24 Step = 10, 11, 12, 13, 15, 16, 18, 20, 22, 24, 27, 30, 33, 36, 39, 43, 47, 51, 56, 62, 68, 75, 82, 91
For values under 1.0pF, contact your local Murata Electronics Sales Office.