

DIELECTRIC LABS Gain Equalizers and SMD Capacitors

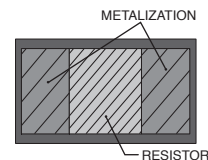
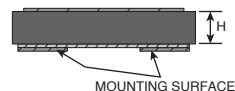
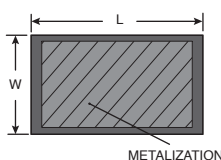


This page of product is RoHS compliant.

AEQ SERIES - HIGH FREQUENCY, THIN FILM, MICROWAVE, SMD GAIN EQUALIZERS

Features:

- Flattens amplifier gain response
- Superior Microwave performance
- Excellent repeatability
- Wafer Packs



Equalizers

MOUSER STOCK NO.	Dielectric Lab. Part No.	Dimensions: mm			Price Each		
		L	W	H	1	10	50
766-AEQ2050-10	AEQ2050-10	30 ± 2	18 ± 2	5 ± 1	12.16	10.60	6.88
766-AEQ2199-10	AEQ2199-10	28 ± 2	16 ± 2	7 ± 1	12.16	10.60	6.88
766-AEQ2234-10	AEQ2234-10	32 ± 2	16 ± 2	5 ± 1	12.16	10.60	6.88
766-AEQ05467-10	AEQ05467-10	28 ± 1	16 ± 1	7 ± 1	13.04	11.37	8.58
766-AEQ05468-10	AEQ05468-10	28 ± 1	16 ± 1	7 ± 1	13.04	11.37	8.58
766-AEQ05469-10	AEQ05469-10	28 ± 1	16 ± 1	7 ± 1	13.04	11.37	8.58
766-AEQ05470-10	AEQ05470-10	28 ± 1	16 ± 1	7 ± 1	13.04	11.37	8.58
766-AEQ05471-10	AEQ05471-10	28 ± 1	16 ± 1	7 ± 1	13.04	11.37	8.58
766-AEQ05472-10	AEQ05472-10	28 ± 1	16 ± 1	7 ± 1	13.04	11.37	8.58

MOUSER STOCK NO.	Dielectric Lab. Part No.	Dimensions: mm			Price Each		
		L	W	H	1	100	500
766-AEQ2050	AEQ2050	30 ± 2	18 ± 2	5 ± 1	12.16	6.88	5.28
766-AEQ2199	AEQ2199	28 ± 2	16 ± 2	7 ± 1	12.16	6.88	5.28
766-AEQ2234	AEQ2234	32 ± 2	16 ± 2	5 ± 1	12.16	6.88	5.28
766-AEQ3042	AEQ3042	40 ± 2	20 ± 2	6 ± 1	12.16	6.88	5.28
766-AEQ3055	AEQ3055	40 ± 2	20 ± 2	6 ± 1	12.16	6.88	5.28
766-AEQ05467	AEQ05467	28 ± 1	16 ± 1	7 ± 1	13.04	7.37	5.66
766-AEQ05468	AEQ05468	28 ± 1	16 ± 1	7 ± 1	13.04	7.37	5.66
766-AEQ05469	AEQ05469	28 ± 1	16 ± 1	7 ± 1	13.04	7.37	5.66
766-AEQ05470	AEQ05470	28 ± 1	16 ± 1	7 ± 1	13.04	7.37	5.66
766-AEQ05471	AEQ05471	28 ± 1	16 ± 1	7 ± 1	13.04	7.37	5.66
766-AEQ05472	AEQ05472	28 ± 1	16 ± 1	7 ± 1	11.69	6.61	5.07

Equalizers Kit

MOUSER STOCK NO.	Dielectric Lab. Part No.	Description	Price Each
766-GAIN-EQUAL-KIT	GAIN EQUALIZER SAMPLE KIT	5 pieces of each 5 values, 9-50Ω	210.00

HIGH Q RF MICROWAVE CAPACITORS

DLI is a specialist in tight tolerance, specialty high Q and high RF power Multi-Layer Capacitors (MLC). Our family of MLCs includes five highly stable ceramic material systems, an extensive combination of standard and non-magnetic finishes, leading and custom arrays, RoHS compliant terminations, and highly reliable lead-bearing platings. DLI's MLCs are used around the world in a host of ground-based and space-based critical communications systems where high reliability and high Q are absolute requirements.

Features:

- High Q
- Stable TC
- Low ESR
- High Self Resonance
- Low noise
- SMD Compatibility

Specifications:

- Operating Range: -55°C to +125°C
- Dielectric Material: Ultrastable Porcelain
- Dielectric Withstanding Voltage: 250% of WVDC for 5 seconds
- Insulation Resistance (MΩ Min): +25°C: 10⁶
+125°C: 10⁵

Applications:

- DC Blocking
- Impedance Matching
- Bypass/Coupling
- Tuning & Feedback
- Amplifier Matching Networks
- High RF Power Circuits
- VCO Frequency Stabilization

C06 Capacitors - 0603 Case Size

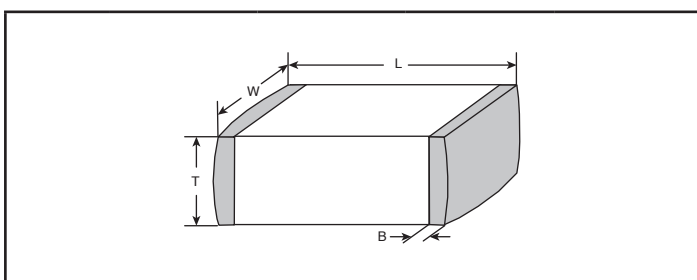
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Dielectric Lab. Part No.	Value (pF)	Volt.	Tol. (±)	Price Each		
					1	10	100
766-C06CF0R3B9ZN-X1T	C06CF0R3B-9ZN-X1T	0.3	250	0.10pF	7.12	6.22	4.90
766-C06CF0R9B9ZN-X1T	C06CF0R9B-9ZN-X1T	0.9	250	0.10pF	4.16	3.65	2.87
766-C06CF1R0B9ZN-X1T	C06CF1R0B-9ZN-X1T	1	250	0.10pF	4.16	3.64	2.85
766-C06CF1R2B9ZN-X1T	C06CF1R2B-9ZN-X1T	1.2	250	0.10pF	4.16	3.65	2.87
766-C06CF1R5B9ZN-X1T	C06CF1R5B-9ZN-X1T	1.5	250	0.10pF	4.16	3.65	2.87
766-C06CF2R0B9ZN-X1T	C06CF2R0B-9ZN-X1T	2	250	0.10pF	4.16	3.65	2.87
766-C06CF2R7B9ZN-X1T	C06CF2R7B-9ZN-X1T	2.7	250	0.10pF	4.16	3.65	2.87
766-C06CF3R3B9ZN-X1T	C06CF3R3B-9ZN-X1T	3.3	250	0.10pF	4.16	3.65	2.85
766-C06CF3R9B9ZN-X1T	C06CF3R9B-9ZN-X1T	3.9	250	0.10pF	4.40	3.85	3.02
766-C06CF4R7B9ZN-X1T	C06CF4R7B-9ZN-X1T	4.7	250	0.10pF	4.40	3.86	3.02
766-C06CF5R6B9ZN-X1T	C06CF5R6B-9ZN-X1T	5.6	250	0.10pF	4.40	3.86	3.02
766-C06CF6R8B9ZN-X1T	C06CF6R8B-9ZN-X1T	6.8	250	0.10pF	4.40	3.86	3.02
766-C06CF9R1B9ZN-X1T	C06CF9R1B-9ZN-X1T	9.1	250	0.10pF	4.40	3.86	3.02
766-C06CF120J9ZN-X1T	C06CF120J-9ZN-X1T	12	250	5%	3.16	2.76	2.17
766-C06CF300J9ZN-X1T	C06CF300J-9ZN-X1T	30	250	5%	3.16	2.76	2.18
766-C06CF330J9ZN-X1T	C06CF330J-9ZN-X1T	33	250	5%	3.16	2.76	2.17

C11 Capacitors - 0505 Case Size

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Dielectric Lab. Part No.	Value (pF)	Volt.	Tol. (±)	Price Each		
					1	10	100
766-C11CF0R3B9ZN-X1T	C11CF0R3B-9ZN-X1T	0.3	250	0.10pF	5.19	4.53	3.57
766-C11CF0R4B9ZN-X1T	C11CF0R4B-9ZN-X1T	0.4	250	0.10pF	5.19	4.53	3.57
766-C11CF0R5B9ZN-X1T	C11CF0R5B-9ZN-X1T	0.5	250	0.10pF	5.19	4.53	3.57
766-C11CF0R7B9ZN-X1T	C11CF0R7B-9ZN-X1T	0.7	250	0.10pF	5.19	4.53	3.57
766-C11CF0R9B9ZN-X1T	C11CF0R9B-9ZN-X1T	0.9	250	0.10pF	3.39	2.96	2.33
766-C11CF1R0B9ZN-X1T	C11CF1R0B-9ZN-X1T	1	250	0.10pF	3.39	2.96	2.33
766-C11CF1R2B9ZN-X1T	C11CF1R2B-9ZN-X1T	1.2	250	0.10pF	3.39	2.96	2.33
766-C11CF1R5B9ZN-X1T	C11CF1R5B-9ZN-X1T	1.5	250	0.10pF	3.39	2.96	2.33
766-C11CF2R0B9ZN-X1T	C11CF2R0B-9ZN-X1T	2	250	0.10pF	3.39	2.96	2.33
766-C11CF2R2B9ZN-X1T	C11CF2R2B-9ZN-X1T	2.2	250	0.10pF	3.39	2.96	2.33
766-C11CF2R7B9ZN-X1T	C11CF2R7B-9ZN-X1T	2.7	250	0.10pF	3.39	2.96	2.33
766-C11CF3R3B9ZN-X1T	C11CF3R3B-9ZN-X1T	3.3	250	0.10pF	3.38	2.96	2.32
766-C11CF3R9B9ZN-X1T	C11CF3R9B-9ZN-X1T	3.9	250	0.10pF	3.55	3.11	2.43
766-C11CF4R7B9ZN-X1T	C11CF4R7B-9ZN-X1T	4.7	250	0.10pF	4.65	4.08	3.19
766-C11CF5R6B9ZN-X1T	C11CF5R6B-9ZN-X1T	5.6	250	0.10pF	3.55	3.11	2.43
766-C11CF6R8B9ZN-X1T	C11CF6R8B-9ZN-X1T	6.8	250	0.10pF	3.55	3.11	2.43
766-C11CF8R2B9ZN-X1T	C11CF8R2B-9ZN-X1T	8.2	250	0.10pF	3.55	3.11	2.43
766-C11CF9R1B9ZN-X1T	C11CF9R1B-9ZN-X1T	9.1	250	0.10pF	3.55	3.11	2.43
766-C11CF100J9ZN-X1T	C11CF100J-9ZN-X1T	10	250	5%	2.86	2.51	1.96
766-C11CF110J9ZN-X1T	C11CF110J-9ZN-X1T	11	250	5%	2.17	1.90	1.48
766-C11CF270J9ZN-X1T	C11CF270J-9ZN-X1T	27	250	5%	3.04	2.66	2.09
766-C11CF330J9ZN-X1T	C11CF330J-9ZN-X1T	33	200	5%	3.04	2.66	2.09



DIMENSIONS: in. (mm)				
Size	L Length	W Width	T Thickness	B
C04	0.040±.004 (1.02±0.1)	0.020±.004 (.51±0.1)	0.024 (0.61)	0.008±0.004 (0.2±0.01)
C11	0.055±0.015 (1.40±0.381-0.254)	0.055±0.15 (1.40±0.381)	0.050 (1.27)	0.005-0.020 (0.130-0.050)
C06	0.063±0.009 (1.6±0.23)	0.031±0.008 (0.80±0.20)	0.031 (0.80)	0.010±0.010-0.005 (0.254±0.254-0.127)
C08	0.080±0.012 (2.0±0.30)	0.050±0.008 (1.27±0.20)	0.051 (1.3)	0.005-0.03 (0.13-0.75)
C17/18	0.110±0.020-0.010 (2.79±0.51-0.25)	0.110±0.015 (2.79±0.381)	0.100 (2.54)	0.015±0.10 (0.381±0.254)

C17 Capacitors - 1111 Case Size

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Dielectric Lab. Part No.	Value (pF)	Volt.	Tol. (±)	Price Each		
					1	10	100
766-C17CF6R8B7ZN-X1T	C17CF6R8B-7ZN-X1T	6.8	1000	0.10pF	5.71	5.00	3.93
766-C17CF120J7ZN-X1T	C17CF120J-7ZN-X1T	12	1000	5%	4.43	3.88	3.05
766-C17CF300J7ZN-X1T	C17CF300J-7ZN-X1T	30	1000	5%	4.86	4.26	3.34
766-C17CF330J7ZN-X1T	C17CF330J-7ZN-X1T	33	1000	5%	4.86	4.26	3.34

C18 Capacitors - 1111 Case Size Extended Voltage Range

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Dielectric Lab. Part No.	Value (pF)	Volt.	Tol. (±)	Price Each		
					1	10	100
766-C18CF1R2B-GZN-X1T	C18CF1R2B-GZN-X1T	1.2	2000	0.1pF	5.43	4.71	3.76
766-C18CF2R2B-GZN-X1T	C18CF2R2B-GZN-X1T	2.2	2000	0.1pF	5.70	4.94	3.95
766-C18CF3R3B-GZN-X1T	C18CF3R3B-GZN-X1T	3.3	2000	0.1pF	5.70	5.01	3.95
766-C18CF3R9B-GZN-X1T	C18CF3R9B-GZN-X1T	3.9	2000	0.1pF	5.70	5.01	3.95
766-C18CF130J-GZN-X1T	C18CF130J-GZN-X1T	12	2000	5%	4.39	3.88	3.04
766-C18CF160J-GZN-X1T	C18CF160J-GZN-X1T	16	2000	5%	4.39	3.88	3.04
766-C18CF390J-GZN-X1T	C18CF390J-GZN-X1T	39	2000	5%	4.86	4.28	3.36
766-C18CF470J-GZN-X1T	C18CF470J-GZN-X1T	47	2000	5%	5.43	4.71	3.76
766-C18CF510J-GZN-X1T	C18CF510J-GZN-X1T	51	2000	5%	5.43	4.71	3.76
766-C18CF680J-GZN-X1T	C18CF680J-GZN-X1T	68	2000	5%	5.43	4.71	3.76

C04, C06, & C08 Broadband Blocks - 0402, 0603, 0805 Case Sizes

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Dielectric Lab. Part No.	Value (pF)	Volt.	Frequency Range	Price Each		
					1	10	100
766-C04BL121X5SNX0T	C04BL121X-5SN-X0T	120	50	5MHz-30GHz	3.06	2.68	2.11
766-C06BL851X5UNX0T	C06BL851X-5UN-X0T	850	50	2MHz-30GHz	2.92	2.55	2.01
766-C06BL851X5ZNX0T	C06BL851X-5ZN-X0T	850	50	2MHz-30GHz	2.88	2.77	2.20
766-C08BL242X5SNX0T	C08BL242X-5SN-X0T	2400	50	1MHz-20GHz	3.34	2.92	2.29
766-C08BL242X5ZNX0T	C08BL242X-5ZN-X0T	2400	50	1MHz-20GHz	3.06	2.66	2.11

