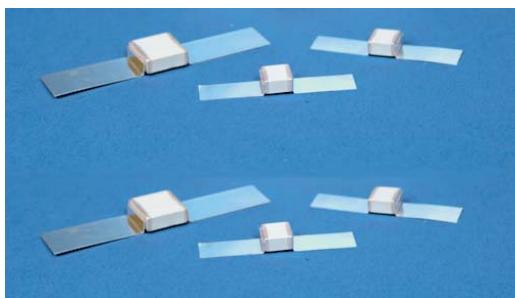


Hi-Q® High RF Power Ribbon Leaded MLC Capacitors



Hi-Q®, High RF Power, Ribbon Leaded MLC Capacitors from AVX Corporation are characterized with ultra-low ESR and dissipation factor at high frequencies. The HQL-style parts are constructed using non-magnetic materials. They are designed to handle high power and high voltage levels for applications in RF power amplifiers, inductive heating, high magnetic field environments (MRI coils), medical and industrial electronics.

HOW TO ORDER

HQLC	A	A	271	J	A	A
AVX Style	Voltage	Temperature Coefficient	Capacitance Code	Capacitance Tolerance	Test Level	Lead Style
HQLC	600V/630 = C	C0G = A	(2 significant digits + no. of zeros)	C = ±0.25pF (<13pF)	A = Standard	A = Axial Ribbon
HQLE	1000V = A		Examples:	D = ±0.50pF (<25pF)		M = Microstrip
	1500V = S		4.7 pF = 4R7	F = ±1% (≥25pF)		
	2000V = G		10 pF = 100	G = ±2% (≥13pF)		
	2500V = W		100 pF = 101	J = ±5%		
	3000V = H		1,000 pF = 102	K = ±10%		
	4000V = J			M = ±20%		
	5000V = K					
	7200V = M					

Capacitance Range (pF)

Style	600/630 WVDC min./max.	1000 WVDC min./max.	1500 WVDC min./max.	2000 WVDC min./max.	2500 WVDC min./max.	3000 WVDC min./max.	4000 WVDC min./max.	5000 WVDC min./max.	7200 WVDC min./max.
HQLC	2200 - 2700	1500 - 1800	820 - 1200	470 - 680	330 - 390	3.3 - 270			
HQLE	5600 - 6800	3300 - 4700	2200 - 2700	1200 - 1800	820 - 1000	470 - 680	220 - 390	120 - 180	3.3 - 100

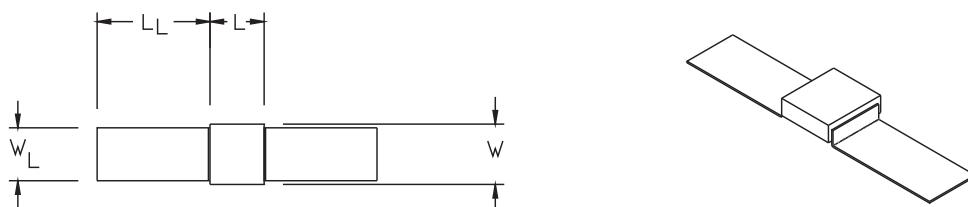
DIELECTRIC PERFORMANCE CHARACTERISTICS

Capacitance Range	3.3pF to 6,800pF (25°C, 1.0 ±0.2 Vrms at 1kHz, for ≤ 1000pF use 1MHz)
Capacitance Tolerances	±0.25pF, ±0.50pF, ±1%, ±2%, ±5%, ±10%, ±20%
Dissipation Factor	0.1% Max (+25°C, 1.0 ±0.2 Vrms at 1kHz, for ≤ 1000pF use 1MHz)
Operating Temperature Range	-55°C to +125°C
Temperature Characteristics	C0G: 0 ± 30 ppm/°C (-55°C to +125°C)
Voltage Ratings	600, 630, 1000, 1500, 2000, 2500, 3000, 4000, 5000, 7200VDC
Insulation Resistance	100K MΩ min. @ +25°C and 500VDC 10K MΩ min. @ +125°C and 500VDC
Dielectric Strength	Minimum 120% of rated WVDC

Hi-Q® High RF Power Ribbon Leaded MLC Capacitors



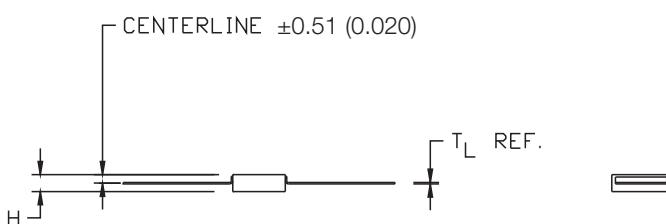
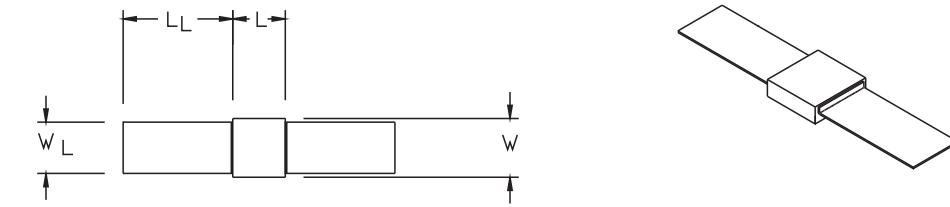
Microstrip Leads (Lead Style "M")



DIMENSIONS millimeters (inches)							
Unit Size	L	L _L	W	W _L	H	H _L	T _L Ref.
HQLC	±0.51 (0.020)	12.7 (0.500)	±0.64 (0.025)	±0.38 (0.015)	±0.64 (0.025)	±0.38 (0.015)	0.10 (0.004)
HQLE	5.72 (0.225)	19.1 (0.750)	6.35 (0.250)	6.10 (0.240)	3.68 (0.145)	0.64 (0.025)	0.25 (0.010)

Note: Side to side lead alignment shall be within ±0.25 (0.010)

Axial Ribbon Leads (Lead Style "A")



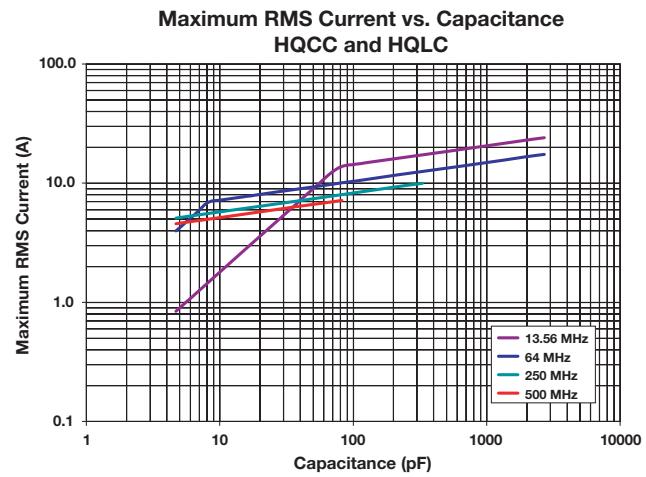
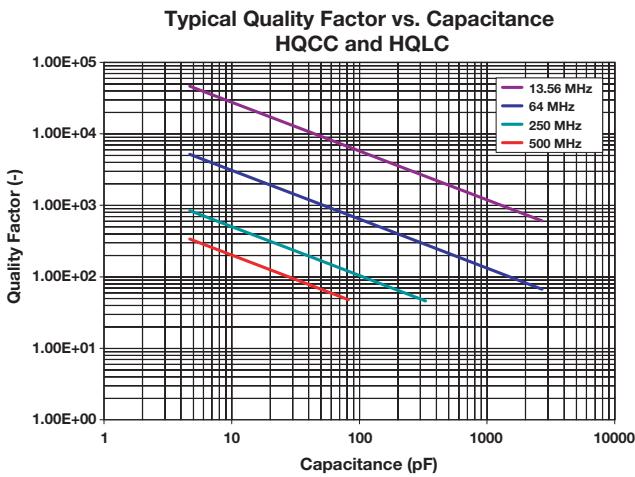
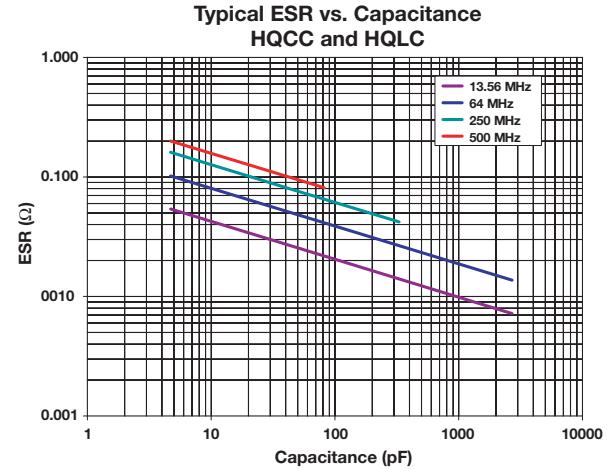
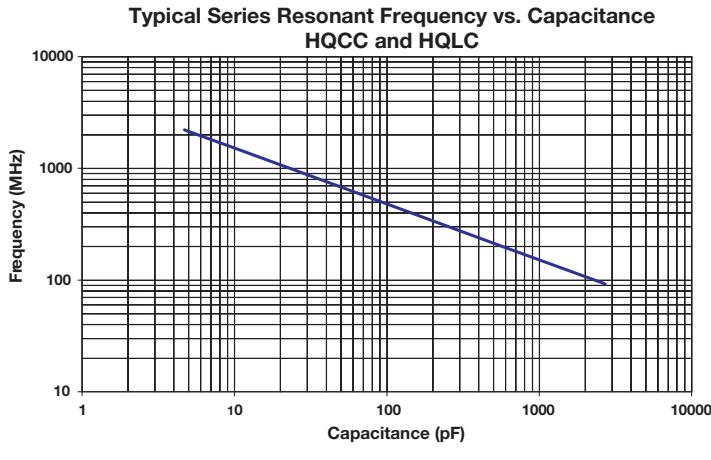
DIMENSIONS millimeters (inches)							
Unit Size	L	L _L	W	W _L	H	T _L Ref.	
HQLC	±0.51 (0.020)	12.7 (0.500)	±0.64 (0.025)	±0.38 (0.015)	±0.64 (0.025)	0.10 (0.004)	
HQLE	5.72 (0.225)	19.1 (0.750)	6.35 (0.250)	6.10 (0.240)	3.18 (0.125)	0.25 (0.010)	

Note: Side to side lead alignment shall be within ±0.25 (0.010)

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PERFORMANCE CHARACTERISTICS



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PERFORMANCE CHARACTERISTICS

