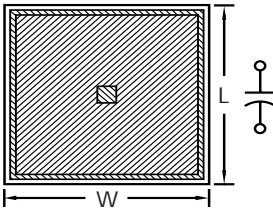


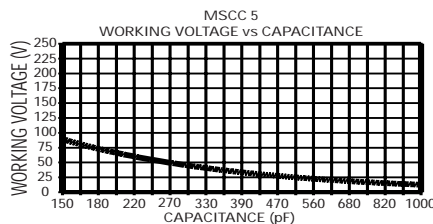
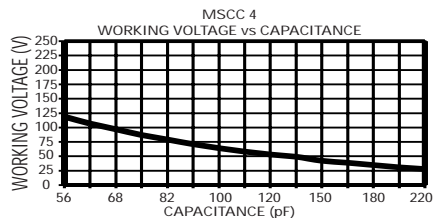
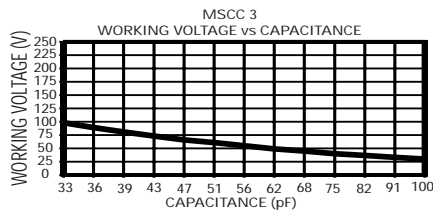
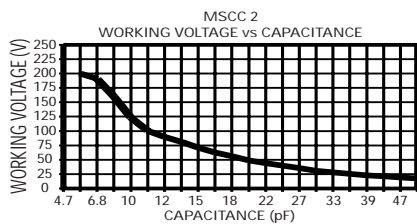
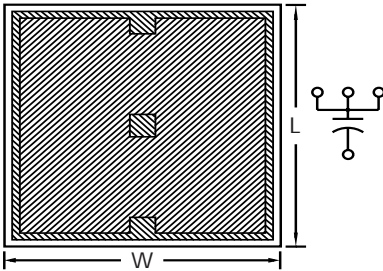
MOS STYLE CHIP CAPACITORS

MSCC SERIES

MSCC 2 - MSCC 4



MSCC 5



MSCC-2

SIZE	0.020" x 0.020" (± 0.003) x 0.010" (± 0.001)					
CAPACITANCE VALUES (pF)	4.7	5.6	6.8	8.2	10	11
	12	13	15	16	18	20
	22	24	27	30	33	36
	39	43	47	51		
TOLERANCES	pF		TOLERANCE(S)			
	4.7 - 10		± 0.5 pF			
	11 - 20		5%, 10%, 20%			
	22 - 30		2.5%, 5%, 10%, 20%			
	33 - 51		5%, 10%, 20%			

MSCC-3

SIZE	0.030" x 0.030" (± 0.003) x 0.010" (± 0.001)					
CAPACITANCE VALUES (pF)	33	36	39	43	47	51
	62	68	75	82	91	100
TOLERANCES	pF		TOLERANCE(S)			
	33 - 51		2.5%, 5%, 10%, 20%			
	56 - 100		5%, 10%, 20%			

MSCC-4

SIZE	0.040" x 0.040" (± 0.003) x 0.010" (± 0.001)					
CAPACITANCE VALUES (pF)	56	62	68	75	82	91
	100	110	120	130	150	160
	180	200	220			
TOLERANCES	pF		TOLERANCE(S)			
	56 - 120		2.5%, 5%, 10%, 20%			
	130 - 220		5%, 10%, 20%			

MSCC-5

SIZE	0.055" x 0.055" (± 0.003) x 0.010" (± 0.001)					
CAPACITANCE VALUES (pF)	150	160	180	200	220	240
	270	300	330	360	390	430
	470	510	560	620	680	750
	820	910	1000			
TOLERANCES	pF		TOLERANCE(S)			
	150 - 470		2.5%, 5%, 10%, 20%			
	510 - 1000		5%, 10%, 20%			

COMMON SERIES DATA

SUBSTRATE	SILICON
DIELECTRIC	SILICON OXIDE
BOND PAD	GOLD STANDARD; ALUMINUM OPTIONAL
BACKSIDE	GOLD, SUITABLE FOR EUTECTIC OR CONDUCTIVE EPOXY ATTACH
T.C.C.	+45ppm/ $^{\circ}$ C, ± 25 ppm/ $^{\circ}$ C
OPERATING TEMPERATURE RANGE	-55 $^{\circ}$ C TO +150 $^{\circ}$ C
DISSIPATION FACTOR	1KHz, 1Vrms, 25 $^{\circ}$ C, 0.1%
Q	1MHz, 50Vrms, 25 $^{\circ}$ C, 1000 MIN.
INSULATION RESISTANCE	@ WORKING VOLTAGE, $10^9 \Omega$
MOISTURE RESISTANCE	MIL-STD 202, METHOD 106, Δ C: ± 1 pF OR 2% Δ C MAX., WHICHEVER IS GREATER
THERMAL SHOCK	MIL-STD 202, METHOD 107F, Δ C: ± 0.5 pF MAX., MSI TYPICAL ± 0.1 pF 150 $^{\circ}$ C, 100 HRS., Δ C:
HIGH TEMPERATURE EXPOSURE	± 0.5 pF OR 1% Δ C MAX., WHICHEVER IS GREATER
SHORT TERM OVERLOAD	1.5X WORKING VOLTAGE, 5 SEC., Δ C: ± 0.5 pF OR 1% Δ C MAX., WHICHEVER IS GREATER
STABILITY	1000 HRS., 70 $^{\circ}$ C, @ WORKING VOLTAGE Δ C: ± 2.5 pF OR ± 2.5 % MAX. Δ C, WHICHEVER IS GREATER

PART NUMBER DESIGNATION

MSCC	X	SA	XXXXX	X	X
SERIES	SIZE	TYPE	CAPACITANCE VALUE	TOL.	OPTION
	2		5-Digit Number: First 4 Digits	A = ± 0.5 pF*	E = Aluminum Pads
	3		Are Significant	H = 2.5%	G = Gold Pads
	4		With "R" As Decimal Point	J = 5%	
	5		When Required.	K = 10%	
			5th Digit Represents	M = 20%	
			Number of Zeros.	* Use for MSCC-2	
				4.7pF to 10pF	

MSI
MINI-SYSTEMS, INC.
THIN FILM DIVISION
45 FRANK MOSSBERG DRIVE, ATTLEBORO, MA 02703
508-226-2111 FAX: 508-226-2211