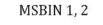
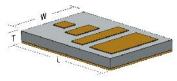
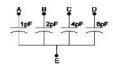
M.O.S. CHIP CAPACITORS

MSBIN SERIES

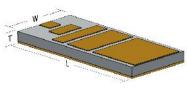


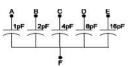




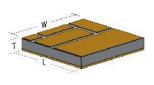
MSCC SERIES

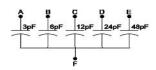
MSBIN 3



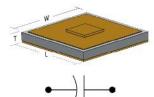


MSBIN 4

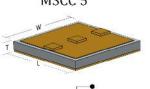








MSCC 5





GENERAL CHARACTERISTICS

Substrate	Silicon		
Dielectric	Silicon Dioxide		
Bond Pad	Gold (Standard), Aluminum (Optional)		
Backside	Gold		
TCC	+45 ±25ppm/°C		
Operating Temperature Range	-55°C to +150°C		
Dissipation Factor	1kHz, 1Vrms, 25°C, ≤0.1%		
Q-Factor	1MHz, 50Vrms, 25°C, 1000 Min.		
Insulation Resistance	≥10 ¹² Ω		

PART NUMBER DESIGNATION

MSBIN -	- 1	S	Α —	3R750	К —	- G
STYLE	TYPE	SUBSTRATE	DIELECTRIC	CAPACITANCE VALUE	TOLERANCE	OPTION
MSCC MSBIN	See Table	S = Silicon	$A = SiO_2$	5-Digit Number: 1st 4 digits are significant with "R" as decimal point when required. 5th digit represents number of zeros. For MSBIN Series 3R750 = 3.75pF MSBIN1 15R00 = 15pF MSBIN2 31R00 = 31pF MSBIN3 93R00 = 93pF MSBIN4	A = ±0.5pF* H = ±2.5% J = ±5% K = ±10% M = ±20% P = ±25% * Use for MSCC-2 4.7pF to 10pF or 2.3pF to 10pF for M	E = Aluminum Pads G = Gold Bond Pads Std

EXAMPLE: MSBIN-1SA-3R750K-G

MSBIN-1 Series, Silicon, SiO_2 , 3.75pF Total Capacitance, $\pm 10\%$ Tol., Gold Bond Pads



SINCE 1968

THIN FILM DIVISION

ISO 9001 CERTIFIED 20 DAVID ROAD

NORTH ATTLEBORO, MA 02760 $EMAIL: \\ msithin@Mini-SystemsInc.com$ WEB: $www. Mini\hbox{-} Systems Inc. com$ PHONE: 508-695-0203 FAX:508-695-6076



M.O.S. CHIP CAPACITORS

MSBIN SERIES

Mini-Systems, Inc. MSBIN series thin film binary array chip capacitors are designed to established industry standards. The MSBIN series offer greater flexibility in capacitance value selection for Hybrid and Microwave circuits.

	STYLE	ТҮРЕ	DIMENSIONS						
CASE SIZE			L (±0.002") [±0.051mm]	W (±0.002") [±0.051mm]	T (±0.003") [±0.076mm]	TOTAL CAPACITANCE	INDIVIDUAL VALUES	TOLERANCE	RATED VOLTAGE
0203	MSBIN								100VDC
0203	MSBIN	2	0.019" [0.482]	0.030" [0.762]	0.010" [0.254]	15pF	1pF, 2pF, 4pF, 8pF	±10%, ±20%	30VDC
0404	MSBIN								75VDC
0505	MSBIN	4	0.044" [1.117]	0.044" [1.117]	0.010" [0.254]	93pF	3рҒ, 6рҒ, 12рҒ, 24рҒ, 48рҒ	±10%, ±20%	93VDC

MSCC SERIES

 $Mini-Systems, Inc. \ \textbf{MSCC} \ series \ MOS \ thin \ film \ chip \ capacitors \ are \ designed \ to \ established \ industry \ standards. The \ MSCC \ series \ is \ offered \ in \ a \ variety \ of \ sizes \ for \ capacitors \ are \ designed \ to \ established \ industry \ standards. The \ MSCC \ series \ is \ offered \ in \ a \ variety \ of \ sizes \ for \ capacitors \ are \ designed \ to \ established \ industry \ standards.$ $both\ Hybrid\ and\ Microwave\ circuits.\ Connection\ to\ associated\ circuitry\ is\ completed\ by\ wire-bonding\ to\ the\ top\ and\ epoxy\ or\ eutectic\ attachment\ to\ the\ back.$

CASE SIZE	STYLE	ТҮРЕ	DIMENSIONS					
			L (±0.002") [±0.051mm]	W (±0.002") [±0.051mm]	T (±0.003") [±0.076mm]	CAPACITANCE RANGE	TOLERANCE	
0101	MSCC	15	0,015" [0.381]	0.015" [0.381]	0,010" [0.254]	2.3pF to 10pF 11pF to 20pF 21pF to 30pF	±0.5pF ±5%, ±10%, ±2.5%, ±5%, ±10%,	
0202	MSCC	2	0.020" [0.508]	0.020" [0.508]	0.010" [0.254]	4.7pF to 10pF 11pF to 20pF 21pF to 70pF	±0.5pF ±5%, ±10%, ±2.5%, ±5%, ±10%,	
0303	MSCC						±2.5%, ±5%, ±10%,	
0404	MSCC	4	0.040" [1.016]	0.040" [1.016]	0.010" [0.254]	25pF to 400pF	±2.5%, ±5%, ±10%,	
0505	MSCC						±2.5%, ±5%, ±10%,	

