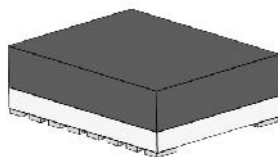


SURFACE MOUNT RESISTOR NETWORKS



Mini-Systems, Inc. **RSMA** Style mini-surface mount thin film resistor networks feature a **smaller footprint** than QSOOP packages. This series is offered in a 0.025" and 0.050" lead pitch. They provide **high stability, low noise, tight tolerance, and ratio tracking**, low TCR and TC tracking of Mini-Systems, Inc. proven thin film process. Combining resistors maximizes on available space and reduces the number of connections. They are available in 8, 14 and 16 lead configurations.

MECHANICAL DATA

Package Style	SMT, Epoxy Coated
Package Configuration	8, 14 or 16 Leads
Lead Pitch	0.025" (RSMA25) 0.050" (RSMA50)
Lead Material	Palladium Silver (Standard) - Solder Tinned (Optional)

GENERAL CHARACTERISTICS

TCR	Standard	Available To
	±150ppm/°C	±5ppm/°C
Power Rating ¹	50 mW/Resistor	
Voltage Rating	100 V	
Resistance Range	5Ω to 1MΩ	
Resistance Tolerance	±0.5% to ±10%	
Current Noise	<-30dB Typical	
Storage Temperature	-65°C to +150°C	
Operating Temperature	-55°C to +150°C	
Insulation Resistance	10 ¹² Ω Min.	

¹ Power Rating at 70°C Derated Linearly to 0% at 150°C

PART NUMBER DESIGNATION

RSMA50	—	16	—	SA	—	10002	—	F	—	AU
STYLE		# LEADS		SCHEMATIC		OHMIC VALUE		TOLERANCE		OPTION
See Table		See Table		SA = Isolated SB = Common SC = Series SD = Divider		1st 4 digits are significant with "R" as decimal point when required. 5th digit represents number of zeros.		D = ±0.5% F = ±1% G = ±2% J = ±5% K = ±10%		D = ±5ppm/°C C = ±10ppm/°C B = ±25ppm/°C A = ±50ppm/°C F = ±100ppm/°C U = Pd/Ag Untinned T = Pd/Ag w/ Sn62 Solder T3 = Pd/Ag w/ SAC305 Solder TR = Tape & Reel

EXAMPLE: RSMA50-16SA-10002F-AU

16 Lead Pkg., 8 - 100kΩ Resistors, Isolated Connections,
±1% Tol., ±50ppm/°C, Pd/Ag Untinned

Custom Networks and Resistor Combinations Available Consult Sales



MINI SYSTEMS INC.
MADE IN AMERICA
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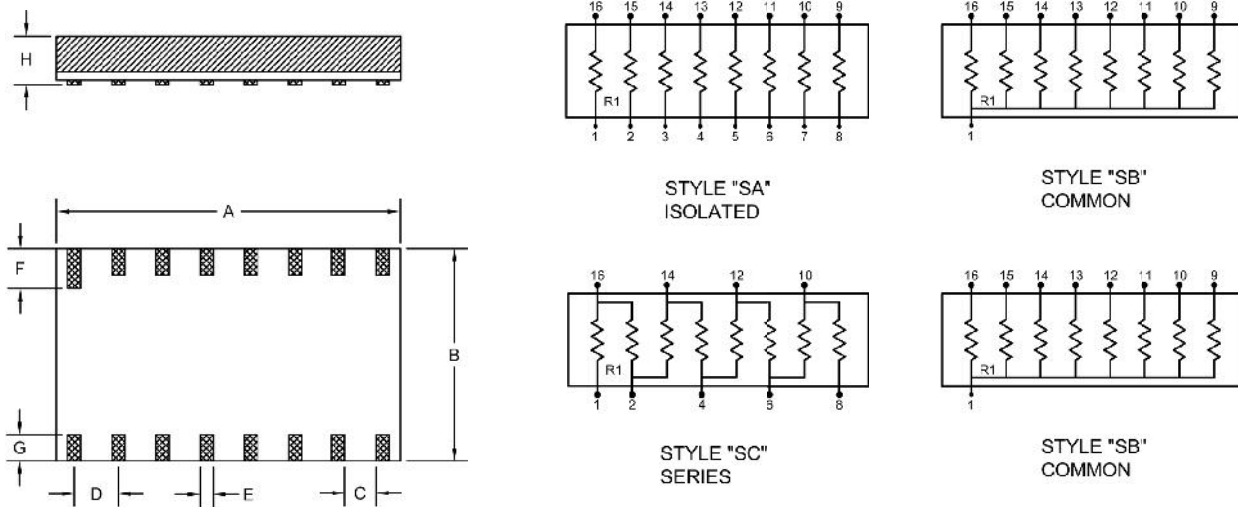
THIN FILM DIVISION

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8041 Rev. A

SURFACE MOUNT RESISTOR NETWORKS



RSMA 25

CASE SIZE	LEADS	Dimensions							
		A (±0.005") [±0.127mm]	B (±0.005") [±0.127mm]	C	D	E (±0.002") [±0.050mm]	F	G	H (±0.005") [±0.127mm]
1515	8	0.150" [3.810]	0.150" [3.810]	0.010" [0.254]	0.025" [0.635]	0.015" [0.381]	0.045" [1.143]	0.025" [0.635]	0.050" [1.270]
1518	14	0.175" [4.445]	0.150" [3.810]	0.010" [0.254]	0.025" [0.635]	0.015" [0.381]	0.045" [1.143]	0.025" [0.635]	0.050" [1.270]
1520	16	0.200" [5.080]	0.150" [3.810]	0.010" [0.254]	0.025" [0.635]	0.015" [0.381]	0.045" [1.143]	0.025" [0.635]	0.050" [1.270]

RSMA 50

CASE SIZE	LEADS	Dimensions							
		A (±0.005") [±0.127mm]	B (±0.005") [±0.127mm]	C	D	E (±0.002") [±0.050mm]	F	G	H (±0.005") [±0.127mm]
2419	8	0.190" [4.826]	0.240" [6.096]	0.035" [0.889]	0.050" [1.270]	0.015" [0.381]	0.045" [1.143]	0.030" [0.762]	0.050" [1.270]
2434	14	0.340" [8.636]	0.240" [6.096]	0.035" [0.889]	0.050" [1.270]	0.015" [0.381]	0.045" [1.143]	0.030" [0.762]	0.050" [1.270]
2439	16	0.390" [9.906]	0.240" [6.096]	0.035" [0.889]	0.050" [1.270]	0.015" [0.381]	0.045" [1.143]	0.030" [0.762]	0.050" [1.270]

PERFORMANCE SPECIFICATIONS

PROPERTY	TEST CONDITION	REQUIRED LIMITS	MSI TYPICAL LIMITS
SHORT TERM OVERLOAD	2.5xWVDC(6.25xRATED POWER)MIL-PRF-55342, +25°C, 5 SEC	±0.25 MAX ΔR/R	±0.10 MAX ΔR/R
HIGH TEMP EXPOSURE	+150°C, 100HRS	±0.20 MAX ΔR/R	±0.03 MAX ΔR/R
THERMAL SHOCK	MIL-STD 202, METHOD 107	±0.25 MAX ΔR/R	±0.10 MAX ΔR/R
MOISTURE RESISTANCE	MIL-STD 202, METHOD 106	±0.40 MAX ΔR/R	±0.10 MAX ΔR/R
STABILITY	MIL-STD 202 METHOD 108, 2000 HRS, +70°C, RATED POWER	±0.50 MAX ΔR/R	±0.10 MAX ΔR/R



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