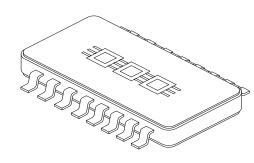
HERMETIC SURFACE MOUNT NETWORKS



HSRN - Hermetic Surface Mount Resistor Networks

HSRN-Style hermetic surface mount thin film resistor networks are fabricated to established industry dimensional standards. They feature Mini-Systems' exceptional electrical characteristics and are available in 14 and 16 lead configurations.

MECHANICAL DATA

PACKAGE STYLE

PACKAGE CONFIGURATION LEAD PITCH

LEAD MATERIAL

SMT, HERMETIC FLAT PACK; GULLWING LEAD

14 OR 16 LEADS

50 MILS

GOLD ON NICKEL PLATED KOVAR

ELECTRICAL DATA

RESISTANCE RANGE

T.C.R. T.C. TRACKING **ABSOLUTE TOLERANCE RATIO TOLERANCE CURRENT NOISE OPERATING VOLTAGE** POWER RATING **PACKAGE POWER** SHORT TERM OVERLOAD HIGH TEMP EXPOSURE THERMAL SHOCK MOISTURE RESISTANCE

OPERATING TEMP. RANGE

STABILITY

10Ω TO 1MΩ: RESISTOR ELEMENTS TO 100MΩ AVAILABLE. CONSULT SALES

±50ppm/°C STANDARD; TO ±5ppm/°C AVAILABLE; VALUE DEPENDENT

±2ppm/°C STANDARD; TO ±1ppm/°C AVAILABLE

0.05%, 0.1%, 0.25%, 0.5%, 1%, 2%, 5%, 10%; VALUE DEPENDENT ±1% STANDARD; AVAILABLE TO ±0.05%; VALUE DEPENDENT

<-30dB TYPICAL 100 V MAX.

50 mW/RESISTOR (70°C DERATED LINEARLY TO 150°C); P=E2/R 400 mW*, (70°C DERATED LINEARLY TO 150°C); P=E2/R

5X RATED POWER, 25°C, 5 SEC., ±0.25% MAX. ΔR/R: ±0.1% MSI TYPICAL

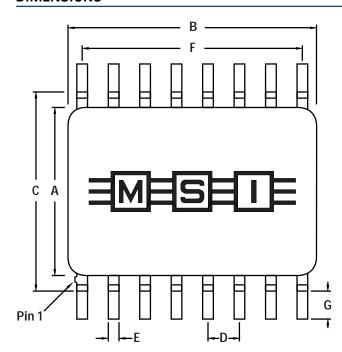
150°C, 100 HRS., ±0.25% MAX. ΔR/R: ±0.03% MSI TYPICAL

MIL-STD 202, METHOD 107F, ±0.25% MAX. Δ R/R: ±0.1% MSI TYPICAL MIL-STD 202, METHOD 106, ±0.5% MAX. Δ R/R: ±0.1% MSI TYPICAL

-55°C TO +150°C

1000 HRS., 70°C, 100% POWER, ±0.5% MAX. ΔR/R; ±0.1% MSI TYPICAL

DIMENSIONS



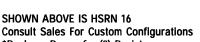
	14 LEAD	16 LEAD			
Α	260 max.	270 max.			
В	350 max.	395 max.			
С	320	320			
D	50	50			
Ε	17 ± 2	17 ± 2			
F	330	350			
G	45	45			
Н	95 max.	71 max.			
Ι	410	410			

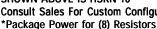
ALL DIMENSIONS IN MILS



45 FRANK MOSSBERG DRIVE, ATTLEBORO, MA 02703 508-226-2111 FAX: 508-226-2211

DCN TF 138-A-0698

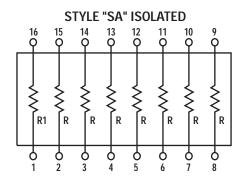


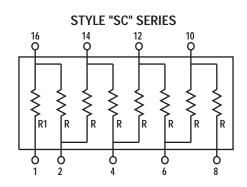


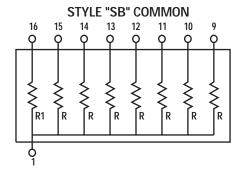
HERMETIC SURFACE MOUNT NETWORKS

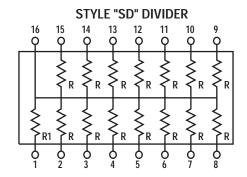
HSRN - Hermetic Surface Mount Resistor Networks

SCHEMATICS









PART NUMBER DESIGNATION

HSRN	_ X -	SX	_	XXXXX	_	X	_ <u>x</u>
SERIES	#LEADS	STYLE		VALUE/ RESISTOR		TOLERANCE	OPTION
	14 16	SA = Isolated SB = Common SC = Series SD = Divider		5-Digit Number: 1st 4 Digits Are Significant With "R" As Decimal Point When Required. 5th Digit Represents Number of Zeros.		Q = 0.05% B = 0.1% C = 0.25% D = 0.5% F = 1% G = 2% J = 5% K = 10%	A = ±50ppm/°C* B = ±25ppm/°C C = ±10ppm/°C D = ±5ppm/°C RB = 0.05% Ratio RC = 0.1% Ratio RD = 0.5% Ratio RE = 0.25% Ratio
				EXAMPLE: 10001 = 10K			

EXAMPLE: HSRN-16-SA-10002F-RD = 16 Lead Pkg., 8 - 100K Ω Resistors; Isolated Connections, \pm 1% Tol.: \pm 50ppm/°C, \pm 0.5% Ratio.

^{*} Always used when no other option is required.



45 FRANK MOSSBERG DRIVE, ATTLEBORO, MA 02703 508-226-2111 FAX: 508-226-2211

DCN TF 138-A-0698