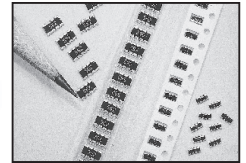


FEATURES

- ULTRA MINIATURE SIZE AND LOW PROFILE
- THICK FILM CONSTRUCTION
- HIGH DENSITY PACKAGING OFFERS SIGNIFICANT SPACE SAVINGS
- REFLOW SOLDERING COMPATIBLE

**RoHS
Compliant**
includes all homogeneous materials



*See Part Number System for Details

SPECIFICATIONS

Type	NRSNE2I2	NRSNE2I4
Termination Type	Flat	Flat
Size W x L (mm)	0.6 x 0.8	0.6 x 1.4
No. of Resistors & Circuit	2R Isolated	4R Isolated
Power Rating per Resistor @ +70°C	1/32 (.031W)	1/32 (.031W)
Resistance Tolerance*	J (±5%)	
Resistance Range	10Ω ~ 1MΩ	10Ω ~ 1MΩ
Jumper	Under 50mΩ	
Current Ratings	Rated - 0.5A	Max. Overload - 1.0A
Temperature Coefficient	±200ppm	
Maximum Working Voltage**	12.5V	
Maximum Overload Voltage	25V	
Operating Temperature Range	-55°C ~ +125°C	

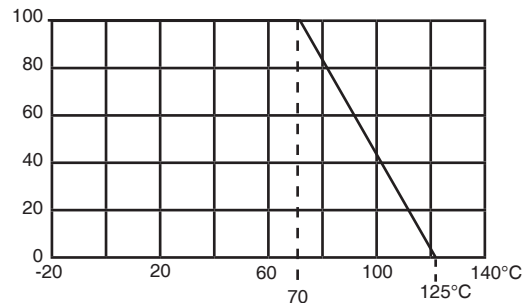
*1% (F) tolerance available special order. Contact NIC regarding availability.

** Maximum allowable continuous voltage for all resistors is the lower of the two values: "MAXIMUM WORKING VOLTAGE" as specified, or

$$\sqrt{\text{Power rating (WATTS)} \times \text{Resistance (OHMS)}}$$

Power Derating Curve:

For operation above 70°C, power rating must be derated according to the following chart:



PART NUMBER SYSTEM (5% TOLERANCE, E-24 VALUES)

NRSN E 2I2 J 103 TR F

- Series
- Termination Type (E = Flat Termination)
- Configuration Designator (See circuit schematics and component diagrams for explanation)
- Tolerance Code: J=5%
- Resistance Code: First 2 figures are significant, 3rd digit is the multiplier, "R" indicates a decimal point.
- Tape & Reel Packaging
- RoHS compliant

PART NUMBER SYSTEM (1% TOLERANCE, E-24 VALUES)

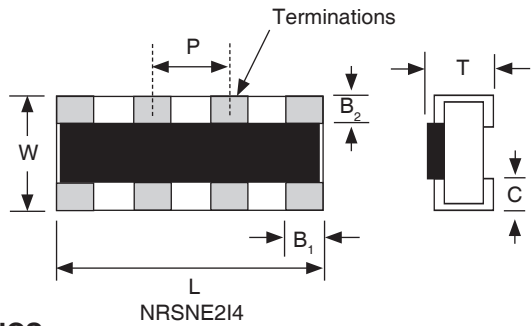
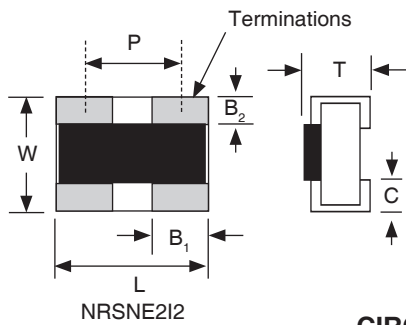
NRSN E 2I2 F 1002 TR F

- Series
- Termination Type (E = Flat Termination)
- Configuration Designator (See circuit schematics and component diagrams for explanation)
- Tolerance Code: F=1%
- Resistance Code: First 3 figures are significant, 4th digit is the multiplier, "R" indicates a decimal point.
- Tape & Reel Packaging
- RoHS compliant

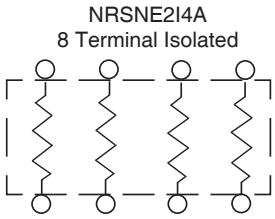
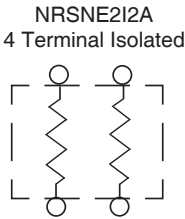


COMPONENT DIMENSIONS (mm)

Type	W	L	P	T	B ₁	B ₂	C
NRSNE2I2	0.60 ± 0.10	0.80 ± 0.10	0.50 nom.	0.35 ± 0.10	0.30 ± 0.10	0.15 ± 0.10	0.15 ± 0.10
NRSNE2I4	0.60 ± 0.10	1.40 ± 0.10	0.40 nom.	0.35 ± 0.10	0.20 ± 0.10	0.15 ± 0.07	0.15 ± 0.05

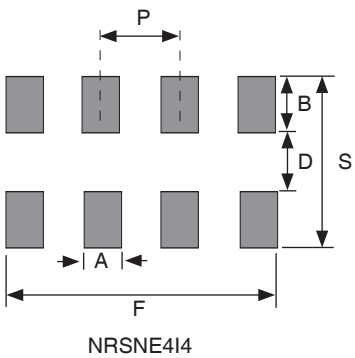
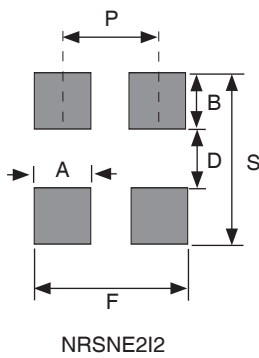


CIRCUIT SCHEMATICS



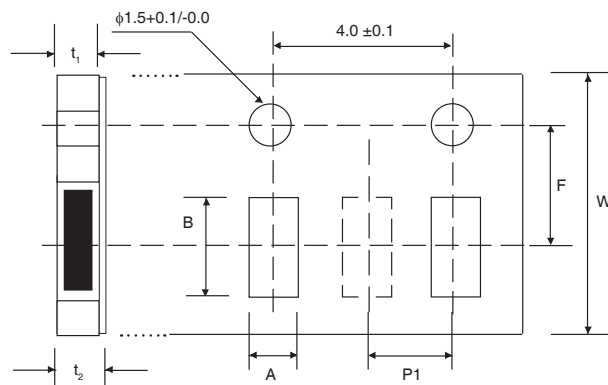
RECOMMENDED LAND PATTERN DIMENSIONS (mm)

Type	Reflow Soldering					
	A	B	D	P	S	F
NRSNE2I2	0.30	0.30	0.30	0.50	0.90	0.80
NRSNE2I4	0.20	0.30	0.30	0.40	0.90	1.40



TAPE DIMENSIONS (mm)

Type	Material	A ± 0.15	B ± 0.15	F ± 0.05	p1 ± 0.05	W ± 0.30	t ₁ ± 0.05	t ₂ ± 0.10
NRSNE2I2	Paper	0.70	0.90	3.50	2.00	8.00	0.43	0.50
NRSNE2I4		0.70	1.60	3.50	2.00	8.00	0.43	0.50



REEL DIMENSIONS (mm)

Type	A	B	C	D	E	W	Qty/Reel
NRSNE2I2	$\phi 180$	$\phi 60$	$\phi 13.0$	$\phi 21.0$	2.0	9.0	10,000
NRSNE2I4	$-3.0/+0.0$	$-0.0/+1.0$	± 2.0	± 0.8	± 0.5	± 0.3	

