



Features

- RoHS compliant*
- Low profile is compatible with DIPs
- Wide assortment of pin packages enhances design flexibility
- Ammo-pak packaging available
- Recommended for rosin flux and solvent clean or no clean flux processes

- Marking on contrasting background for permanent identification

4600X Series - Thick Film Conformal SIPs

Product Characteristics

Resistance Range 10 ohms to 10 megohms
 Maximum Operating Voltage 100 V
 Temperature Coefficient of Resistance
 50 Ω to 2.2 megohms ... ±100 ppm/°C
 below 50 Ω ±250 ppm/°C
 above 2.2 megohms ±250 ppm/°C
 TCR Tracking 50 ppm/°C maximum; equal values
 Resistor Tolerance See circuits
 Insulation Resistance
 10,000 megohms minimum
 Dielectric Withstanding Voltage
 200 VRMS
 Operating Temperature
 -55 °C to +125 °C

Environmental Characteristics

TESTS PER MIL-STD-202 ΔR MAX.
 Short Time Overload ±0.25 %
 Load Life ±1.00 %
 Moisture Resistance ±0.50 %
 Resistance to Soldering Heat
 ±0.50 %
 Terminal Strength ±0.25 %
 Thermal Shock ±0.25 %

Physical Characteristics

Flammability Conforms to UL94V-0
 Body Material Epoxy resin
 Standard Packaging
 Bulk, Ammo-pak available

How To Order

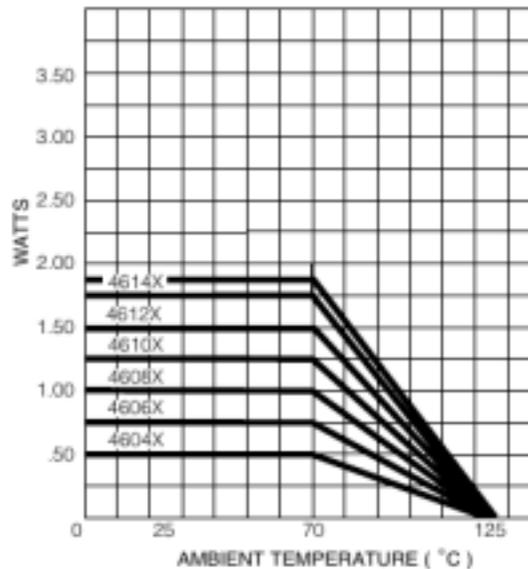
46 06 X - 101 - 222 LF

Model (46 = Conformal SIP)
 Number of Pins
 Physical Configuration (X = Thick Film Low Profile)
 Electrical Configuration
 • 101 = Bussed
 • 102 = Isolated
 • 104 = Dual Terminator
 • AP1 = Bussed Ammo**
 • AP2 = Isolated Ammo**
 • AP4 = Dual Ammo**
 Resistance Code
 • First 2 digits are significant
 • Third digit represents the number of zeros to follow.
 Resistance Tolerance
 • Blank = ±2 % (see "Resistance Tolerance" on next page for resistance range)
 • F = ±1 % (100 ohms - 5 megohms)
 Terminations
 • All electrical configurations EXCEPT 104 & AP4:
 LF = Sn/Ag/Cu-plated (RoHS compliant)
 • ONLY electrical configurations 104 & AP4:
 L = Sn/Ag/Cu-plated (RoHS compliant)

Consult factory for other available options.

**Available for packages with 10 pins or less.

Package Power Temp. Derating Curve



Package Power Ratings (Watts)

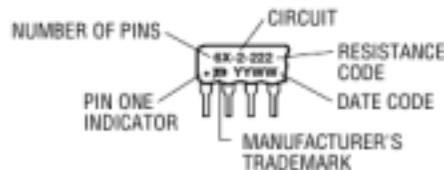
Pkg.	Ambient Temp. 70 °C	Pkg.	Ambient Temp. 70 °C
4604X	0.50	4610X	1.25
4605X	0.63	4611X	1.38
4606X	0.75	4612X	1.50
4607X	0.88	4613X	1.63
4608X	1.00	4614X	1.75
4609X	1.13		

Typical Part Marking

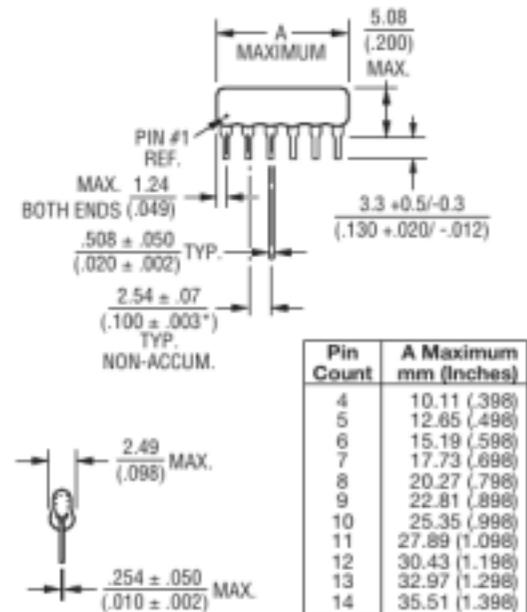
Represents total content. Layout may vary.

Part Number	Marking
4606X-101-RC	6X-1-RC
4608X-102-RC	8X-2-RC
4610X-104-RC/RC	10X-4-RC/RC

RC = ohmic value, 3-digit resistance code.



Product Dimensions



Maximum package length is equal to 2.54mm (.100") times the number of pins, less .005mm (.002").

Governing dimensions are in metric. Dimensions in parentheses are inches and are approximate.

*Terminal centerline to centerline measurements made at point of emergence of the lead from the body.

For Standard Values Used in Capacitors, Inductors, and Resistors, [click here.](#)