

## HRRACX High-Reliability Thick Film Chip Resistor Array



### Features

- Convex termination style
- Four isolated resistors
- 3 Ω to 1 MΩ and zero jumper
- Resistance tolerance: 1% and 5%
- Available with Sn, Sn/Pb, Au terminations
- MIL-PRF-55342 and Space Level screening available

### Applications

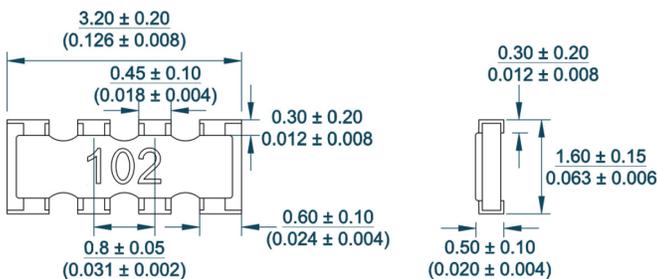
- Medical
- Aerospace
- Avionics
- Military

### Electrical Characteristics

Part Number	HRRACX1206-XXXJxx	Maximum Overload Voltage	100V
Number of Resistors/Elements	4	Maximum Working Voltage	50V
Power Rating @ 70 °C per Resistor	63mW	Operating Temperature Range	-55 °C to +125 °C
Resistance Tolerance	1%, 5%	Rating Temperature	+70 °C
Resistor Range and & TCR Plus zero-ohm jumper	5%, 10 Ω ~ 1 MΩ, 200 ppm/°C 5%, 3 ~ 9, 1 Ω, 400 ppm/°C	Zero Ohm Jumper Current Rating / Max. Resistance (per resistor/element)	1 A / 2.5 A / 50 mΩ max.

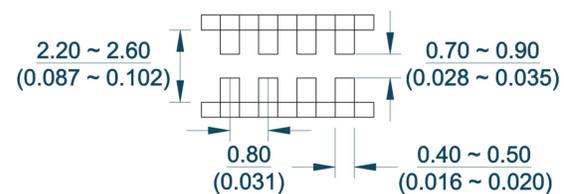
### Product Dimensions

mm  
(inches)

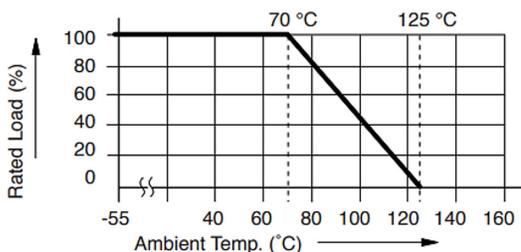


### Recommended Pad Layout

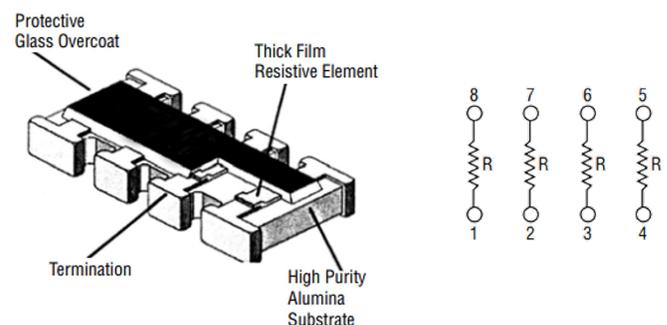
mm  
(inches)



### Derating Curve

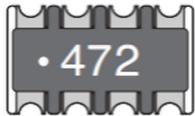


### Construction and Isolated Circuit

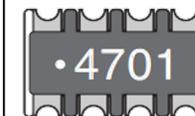


# HRRACX High-Reliability Thick Film Chip Resistor Array

## Typical Part Marking



±5% (E24)  
 Three digits; first two digits are significant;  
 third digit is number of zeros to follow.  
 EX: 472 = 4700 Ω = 4.7 KΩ



±1% (E96)  
 Four digits; first three digits are significant;  
 fourth digit is number of zeros to follow.  
 EX: 4701 = 4700 Ω = 4.7 KΩ

## Standard Screening Options

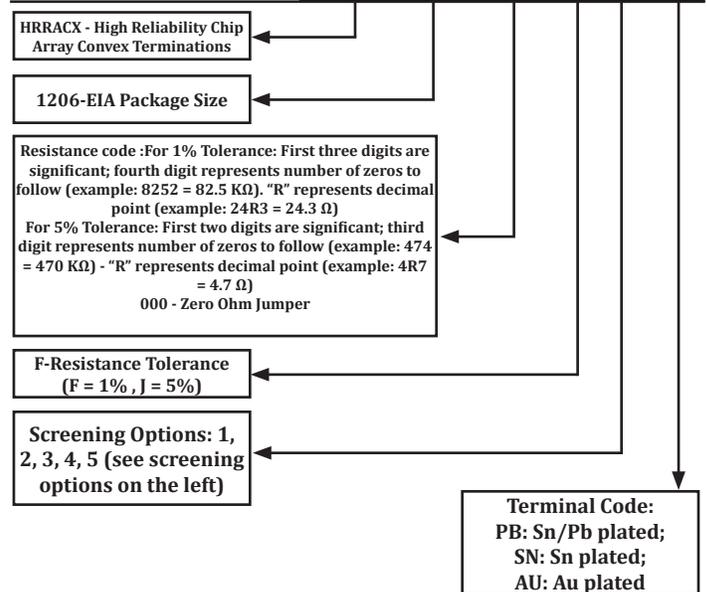
- Option 1: 100% visual inspection per MIL-PRF-55342, AS9102 FAIR, MIL-STD-1580 DPA.
- Option 2: Group A and B Screening per MIL-PRF-55342, AS9102 FAIR, MIL-STD-1580 DPA
- Option 3: Group A, B, and C Screening per MIL-PRF-55342, AS9102 FAIR, MIL-STD-1580 DPA.
- Option 4: Group A, B, and Qualification Screening per MIL-PRF-55342, AS9102 FAIR, MIL-STD-1580 DPA.
- Option 5: Customer Source Control Drawing (SCD) defined screening. AEM will customize screening based on customer requirements.
- Note: (see AEM Detail Specification for more details).

## Storage Conditions:

5~35 °C, 40~75 % RH - 2 years

## Ordering Information

**HRRACX 1206 1002 F x x**



## AEM part numbers:

AEM Part No.	Package Size	Resistance Code	Resistance Value (Ohms)	Resistance Tolerance	AEM Part No.	Package Size	Resistance Code	Resistance Value (Ohms)	Resistance Tolerance
HRRACX1206-000Jxx	1206	000	0 (zero ohm jumper)	5%	HRRACX1206-102Jxx	1206	102	1K	5%
HRRACX1206-1000Fxx	1206	1000	100	1%	HRRACX1206-103Jxx	1206	103	10K	5%
HRRACX1206-1001Fxx	1206	1001	1K	1%	HRRACX1206-104Jxx	1206	104	100K	5%
HRRACX1206-1002Fxx	1206	1002	10K	1%	HRRACX1206-10R0Jxx	1206	10R0	10	5%
HRRACX1206-1003Fxx	1206	1003	100K	1%	HRRACX1206-122Jxx	1206	122	1.2K	5%
HRRACX1206-100Jxx	1206	100	10	5%	HRRACX1206-151Jxx	1206	151	150	5%
HRRACX1206-101Jxx	1206	101	100	5%	HRRACX1206-152Jxx	1206	152	1.5K	5%

## HRRACX High-Reliability Thick Film Chip Resistor Array

### AEM part numbers (Continue):

Part No.	Package Size	Resistane Code	Resistance Value (Ohms)	Resistance Tolerance	Part No.	Package Size	Resistane Code	Resistance Value (Ohms)	Resistance Tolerance
HRRACX1206-153Jxx	1206	153	15K	5%	HRRACX1206-332Jxx	1206	332	3.3K	5%
HRRACX1206-182Jxx	1206	182	1.8K	5%	HRRACX1206-333Jxx	1206	333	33K	5%
HRRACX1206-183Jxx	1206	183	18K	5%	HRRACX1206-334Jxx	1206	334	330K	5%
HRRACX1206-2002Fxx	1206	2002	20K	1%	HRRACX1206-3902Fxx	1206	3902	39K	1%
HRRACX1206-204Jxx	1206	204	200K	5%	HRRACX1206-391Jxx	1206	391	390	5%
HRRACX1206-2201Fxx	1206	2201	2.2K	1%	HRRACX1206-3R3Jxx	1206	3R3	3.3	5%
HRRACX1206-2202Fxx	1206	2202	22K	1%	HRRACX1206-4701Fxx	1206	4701	4.7K	1%
HRRACX1206-220Jxx	1206	220	22	5%	HRRACX1206-4702Fxx	1206	4702	47K	1%
HRRACX1206-2210Fxx	1206	2210	221	1%	HRRACX1206-470Jxx	1206	470	47	5%
HRRACX1206-2212Fxx	1206	2212	22.1K	1%	HRRACX1206-471Jxx	1206	471	470	5%
HRRACX1206-221Jxx	1206	221	220	5%	HRRACX1206-472Jxx	1206	472	4.7K	5%
HRRACX1206-222Jxx	1206	222	2.2K	5%	HRRACX1206-473Jxx	1206	473	47K	5%
HRRACX1206-223Jxx	1206	223	22K	5%	HRRACX1206-49R9Fxx	1206	49R9	49.9	1%
HRRACX1206-22R0Fxx	1206	22R0	22	1%	HRRACX1206-510Jxx	1206	510	51	5%
HRRACX1206-22R1Fxx	1206	22R1	22.1	1%	HRRACX1206-560Jxx	1206	560	56	5%
HRRACX1206-240Jxx	1206	240	24	5%	HRRACX1206-561Jxx	1206	561	560	5%
HRRACX1206-272Jxx	1206	272	2.7K	5%	HRRACX1206-5621Fxx	1206	5621	5620	1%
HRRACX1206-273Jxx	1206	273	27K	5%	HRRACX1206-5622Fxx	1206	5622	56.2K	1%
HRRACX1206-3301Fxx	1206	3301	3.3K	1%	HRRACX1206-822Jxx	1206	822	8.2K	5%
HRRACX1206-330Jxx	1206	330	33	5%	HRRACX1206-680Jxx	1206	680	68	5%
HRRACX1206-331Jxx	1206	331	330	5%	HRRACX1206-6812Fxx	1206	6812	68.1K	1%

Note: Last (xx) are screening and termination codes respectively. (From left to right)

Note: Other resistor values maybe available within same size and tolerances. Contact AEM for info.