

000 001
 002 003
 004 005

IMS

008 009 H09
 010 014 017



Features

Thick film technology

Single-Sided Terminations for Wirebonding, Soldering, and Epoxy Attachment

Gold, Platinum Silver, and Platinum Silver with Solder Coating Terminations

Resistance values from 0.1Ω to 1000 GΩ

Tolerances to ± 1 %

Low TCRs

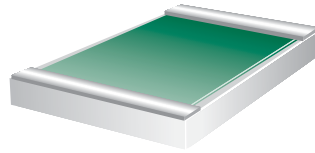


50 Schoolhouse Lane
 Portsmouth, RI 02871
 Tel (401) 683-9700
 Fax (401) 683-5571
 e-mail: ims@ims-resistors.com
<http://www.ims-resistors.com>

Miniature Single-Sided Thick Film Chip Resistors

The **ims** IMS series of miniature single-sided thick film chip resistors is ideally suited for hybrid and printed circuit applications. Many combinations of termination materials are available to meet the requirements of all common attachment methods. Sizes from .025" X .030" to 0.150" X 0.050" are offered. A wide range of values and tolerances is available.

Terminations



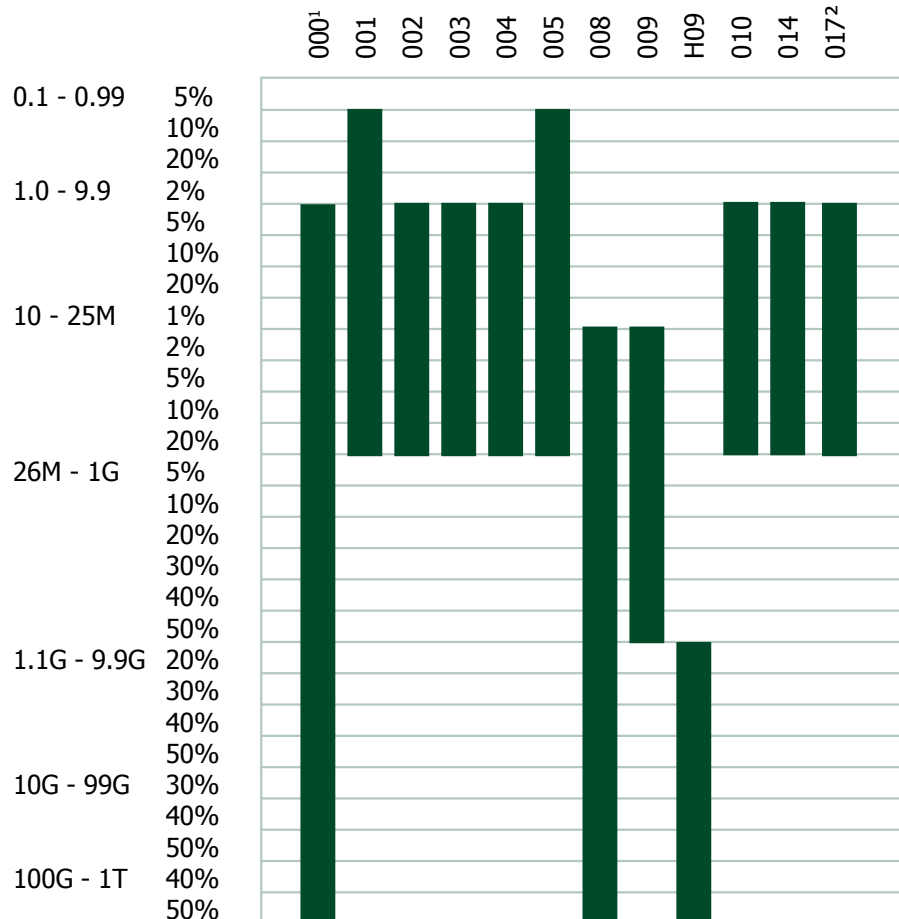
Single side termination

- 1 Au
- 3 PtAg
- C PtAg with 62/36/2 solder coating

Note: Not all termination materials available in all styles.

Resistance Ranges

The table below illustrates the resistance values and the tolerances available for all of IMS' single side devices. Resistance values can be **as low as 0.1Ω** and **as high as 1000 GΩ** (device dependent). For resistances higher than 1000 GΩ, consult the factory.

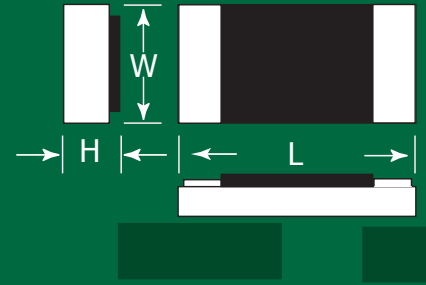


Jumpers are available in all sizes.

¹ Larger bond pads available for auto wirebonding.
² Highest Value for 1% Tolerance is 1Mohm

Dimensions

Part Number	Length	Width	Height
IMS000	0.045 ± .005	0.030 ± .005	0.016 max.
IMS001	0.050 ± .005	0.050 ± .005	0.016 max.
IMS002	0.075 ± .005	0.050 ± .005	0.016 max.
IMS003	0.100 ± .005	0.050 ± .005	0.016 max.
IMS004	0.150 ± .005	0.050 ± .005	0.016 max.
IMS005	0.100 ± .005	0.100 ± .005	0.016 max.
IMS008	0.100 ± .005	0.025 ± .005	0.016 max.
IMS009	0.080 ± .005	0.050 ± .005	0.016 max.
IMSH09	0.080 ± .005	0.050 ± .005	0.016 max.
IMS010	0.125 ± .005	0.050 ± .005	0.016 max.
IMS014	0.035 ± .005	0.035 ± .005	0.016 max.
IMS017	0.025 ± .005	0.030 ± .005	0.016 max.



Specifications

Part number	Rated power (70°C)*	WVDC	Tolerances (%)
IMS000	125 mW	60	1, 2, 5, 10
IMS001	125 mW	60	1, 2, 5, 10
IMS002	175 mW	100	1, 2, 5, 10
IMS003	250 mW	160	1, 2, 5, 10
IMS004	350 mW	350	1, 2, 5, 10
IMS005	500 mW	160	1, 2, 5, 10
IMS008	100 mW	175	1, 2, 5, 10
IMS009	175 mW	150	1, 2, 5, 10
IMSH09	175 mW	150	10, 20, 30
IMS010	250 mW	230	1, 2, 5, 10
IMS014	125 mW	50	1, 2, 5, 10
IMS017	30 mW	40	1, 2, 5, 10

Operating Temperature: -55°C to 155°C

* Increased power handling can be achieved by using proper circuit design and power management techniques .

Ordering Information

Example: 0.045" X 0.030," gold terminations, 100Ω, 5% tolerance

000 ¹	001	002	IMS000 - 1 - 1000 J	Tolerance F - 1% G - 2% J - 5% K - 10% L - 15% M - 20% N - 30%
003	004	005		
008	H09	009		
010	014 ²	017 ²		
¹ Available in -0, -1, -2 only				
² Available in -1 only				
Termination			Resistance value	
-0 Pd/Ag (IMS000 only)			The first three digits are significant values. The fourth is the number of zeroes following. The R indicates a decimal point when resistance value is less than 100Ω.	
-2 Pd/Ag w/ 62/36/2 solder (IMS000 only)				
-1 Au				
-3 Pt/Ag				
-C Pt/Ag w/ 62/36/2 solder				
<small>Add "B" after the dash number to indicated a backplane of the same Metalization (-1,-3 only).</small>				

Bulk packaging is standard. Tape and reel and waffle packs are available for some sizes. Please consult the factory.

IMS ver.6 03/04 Specifications subject to change without notice.

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ims International
Manufacturing
Services, Inc.
50 Schoolhouse Lane
Portsmouth, RI 02871
Tel (401) 683-9700
Fax (401) 683-5571
e-mail: ims@ims-resistors.com
<http://www.ims-resistors.com>