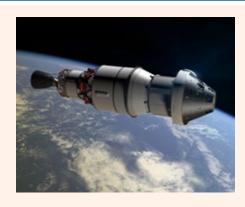


# Series 792 Connectors for Space Flight



## Is the Series 792 qualified and approved for space flight?

The new Series 792 connector is a highspeed version of the space-approved Series 791 connector.

## Do Series 792 connectors meet outgassing requirements?

Connectors must be vacuum baked to guarantee compliance with outgassing limits established by NASA and military space programs. The requirements are 1.0 % Total Mass Loss (TML) and 0.1% Collected Volatile Condensible Material (CVCM). ASTM E595 defines the test procedure.

#### What is vacuum bakeout?

Connectors are placed in a special oven for 24 hours at +125°C and a vacuum of 10-6 Torr.

## Are Series 792 connectors non-magnetic?

Series 792 connectors meet the 2.0µ magnetic permeability requirement of EIA-364-54. Additional residual magnetism screening is available on request.

Series 792 connectors are available with upgraded screening and vacuum bakeout for high-reliability space programs. Find the appropriate code from the following table and add the code to the part number.

<u>Example</u> 792-001SA-1W1MP**-429C** 

### Space Grade Modification Codes

Modification Code	NASA Screening Level		Vacuum Bakeout
	Level 1 Highest Reliability	Level 2 High Reliability	24 hours +125°C
429		•	
429A		•	•
429B	•		
429C	•		•
186M			•

### NASA Screening Requirements (EEE-INST-002 Table 2C)

/T .	NASA Screening Level		
Inspection/Test	Level 1 Highest Reliability	Level 2 High Reliability	
Visual Inspection	100% 10X magnification	100% 10X magnification	
Mechanical Inspection	2 connectors 10X magnification	2 connectors 10X magnification	
DWV/IR	2 connectors	2 connectors	
Contact Separation Force (non-removable contacts)	2 connectors	Not required	
Mating and Unmating Force	2 connectors	Not required	
Hermeticity (hermetic connectors only)	100%	100%	
Vacuum Bakeout (Optional, depends on Mod code)	100%	100%	