

Series 792 Connectors for Space Flight



Is the Series 792 qualified and approved for space flight?

The new Series 792 connector is a high-speed 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 Condensable 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.

Example
792-001SA-1W1MP-429C

Space Grade Modification Codes

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

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

Inspection/Test	NASA Screening Level	
	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%