

HEAT-PIPES' APPLICATION FOR COOLING OF COMMUNICATIONS-ELECTRONICS EQUIPMENT

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In this paper it is shown analysis and results of experimental research of design and making shaped heat-pipes in order to cool communications-electronics equipment of rockets' engines.

Heat-pipe, shape of heat-pipe, cooling of communications-electronics equipment, thermal output

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References

1. Kitaev A.I., Tsarkov V.N., Gavrilova E.S. Ground testing results of loop heat pipe used to maintain thermal conditions of equip-

ment //Proc. of 7th Minsk Int. Seminar "Heat Pipes, Heat Pumps, Refrigerators, Power Sources", Minsk, Belarus, 2008, pp157-160.