AMS Advanced Microwave Systems

Active Decoy Radar Countermeasure.

Introduction.

AMS has developed an active decoy radar countermeasure for self-protection of airplanes that is a far better solution to the passive chaff alternatives. The main feature of the system is that can show a virtual radar cross section which is at least 10 times larger than that of the target under protection.
This feature means that any hostile rocket can be deluded from its real target towards the decoy and thus save lives and equipment. The system is housed in an aerodynamic vehicle, which occupies a very small volume of just 2.5x2.5x20 cm^3. This volume is suitable for use with several active decoy units on the same aircraft. The procedure is that when the pilot realizes a possible threat from its radar warning receiver then it lets the active decoy, which flies by its own and is activated automatically. Then the threat is locked towards the decoy due to the large radar cross section that is exhibiting.

Electrical specifications.

Specification	Value
Operating Frequency	8.9-9.3 GHz
1dB Compression Point	+33 dBm
Gain	65dB
Gain Stability	± 1.5 dB over temperature and frequency
VSWR in,out (max)	2.0
Input Interface	50 Ohms SMA Female
Output Interface	50 Ohms SMA Female
Power Supply	12Volt DC/ 1A
Temperature range	-20 to +55 Celsius

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