

СОВРЕМЕННЫЕ БОРТОВЫЕ РАДИОЛОКАЦИОННЫЕ СТАНЦИИ И АНТЕННЫЕ РЕШЕТКИ МНОГОФУНКЦИОНАЛЬНЫХ АВИАЦИОННЫХ КОМПЛЕКСОВ ВОЕННОГО НАЗНАЧЕНИЯ

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(по материалам открытой печати)

В данной статье дается краткое описание облика современных и перспективных многофункциональных авиационных комплексов и функции бортовых радиолокационных станций в составе их бортового радиоэлектронного оборудования. Приведены характеристики бортовых радиолокационных станций и описание антенных решеток, стоящих на вооружения в России и за рубежом. Приводятся возможные пути развития бортовых радиолокационных станций в ближайшем будущем.

Ключевые слова: бортовые радиолокационные станции, характеристики бортовых радиолокационных станций, многофункциональные авиационные комплексы.

ВВЕДЕНИЕ

В настоящее время в России и зарубежных странах сформулированы основные критерии, определяющие облик современных и перспективных авиационных комплексов (АК) военного назначения. К ним относятся: многофункциональность, повышенная скрытность, интегрированность бортового радиоэлектронного оборудования (БРЭО), информационная осведомленность о текущей обстановке, высокая надежность и технологичность.

Приведенные критерии, прежде всего, повлияли на тенденции развития бортовых радиолокационных станций (БРЛС). Данная статья направлена на обобщение информации о БРЛС современных и перспективных АК и оценку возможных направлений их развития.

БРЛС В СОСТАВЕ МНОГОФУНКЦИОНАЛЬНЫХ АВИАЦИОННЫХ КОМПЛЕКСОВ

Многофункциональность АК в простом понимании подразумевает наличие оборудования, которое позволяет одному самолету (экипажу) выполнять функции истребителя воздушных целей, ударного самолета, способного с высокой эффективностью уничтожать разнообразные наземные объекты в условиях сильного противодействия средств ПВО, а также выполнять роль самолета-разведчика [1]. В еще более общем понимании многофункциональными можно считать АК, оборудование которых позволяет выполнять в одном полете ряд разнохарактерных задач. Одну из ключевых ролей, определяющих способность МФ АК выполнять поставленные перед ним задачи, играют бортовые радиолокационные станции, которые, по мнению отечественных и зарубежных экспертов, в ближайшем будущем останутся основным средством обнаружения и сопровождения целей, обеспечения ситуационной осведомленности и применения оружия [5]. БРЛС МФ АК должна обеспечивать в режиме «воздух-воздух»:

- обнаружение большого количества воздушных целей (в том числе групповых) и их однозначное распознавание на большом расстоянии;
- измерение дальности до обнаруженных целей, направления и скорости их движения;
- автоматическое сопровождение одновременно большого количества воздушных целей;
- применение управляемых средств поражения (УСП) одновременно по нескольким целям;
- обнаружение метеорологических образований на пути следования;
- предупреждение столкновения в воздухе.

В режиме «воздух-поверхность» БРЛС должна обеспечивать:

- обнаружение, распознавание и автоматическое сопровождение наземных (морских) целей с различной ЭПР, в том числе малоразмерных слабоконтрастных целей;

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