

Conclusion

The PE42524 is the first microwave switch to be offered by Peregrine Semiconductor. The PE42524 brings competitive insertion loss, exceptional isolation and the usual high linearity and power handling Peregrine is known for to a market that can benefit from the uniformity and availability that UltraCMOS affords to every market it enters. To achieve high performance at these frequencies, extreme care must be taken to eliminate any stray parasitics affecting the RF channel.

This application note provides guidance necessary for achieving the optimum performance from the PE42524. Landing patterns in different substrate technologies have been described, some of which have shown comparable performance up to 40 GHz. Complete CAD files of the physical layouts are available from Peregrine's website to help facilitate the integration of the PE42524 into higher-level assemblies and systems.

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