Abstracts

Non-Reciprocal Ferrite Phase Shifters for Millimeter Applications

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The design, fabrication and evaluation of 35 GHz, 65 GHz and 94 GHz non-reciprocal, ferrite latching phase shifters is described. These devices are waveguide structures which utilize the novel arc plasma spray (APS) process for fabricating the lithium ferrite toroids used in these phasors in order to achieve low cost and high performance. Currently, APS techniques are being developed to produce hybrid integrated phasor assemblies for use in millimeter phased array radars operating up to 94 GHz and possibly higher.

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