

Title (en)  
CAVITY RESONANCE SUPPRESSION USING THERMAL PEDESTAL ARRANGEMENTS IN ACTIVE ELECTRONICALLY SCANNED ARRAY

Title (de)  
HOHLRAUMRESONANZUNTERDRÜCKUNG UNTER VERWENDUNG VON THERMISCHEN SOCKELANORDNUNGEN IN AKTIVEM ELEKTRONISCH ABGETASTETEM ARRAY

Title (fr)  
SUPPRESSION DE RÉSONANCE DE CAVITÉ À L'AIDE D'AGENCEMENTS DE SOCLES THERMIQUES DANS UN RÉSEAU ACTIF À BALAYAGE ÉLECTRONIQUE

Publication  
**EP 4315501 A1 20240207 (EN)**

Application  
**EP 22718037 A 20220331**

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• US 202217657342 A 20220330  
• US 2022071453 W 20220331

Abstract (en)  
[origin: WO2022213097A1] An AESA (Active Electronically Scanned Array), including: a PCB (Printed Circuit Board) substrate having an obverse surface; TRMs (Transmit/Receive Modules) disposed on the obverse surface; thermal pedestals wherein each thermal pedestal includes a wall, having a wall height, including wall surfaces and one of the wall surfaces being a contact surface; and a TIM (Thermal Interface Material), having a TIM height, disposed between a respective contact surface of the thermal pedestals and the obverse surface. A plurality of the thermal pedestals are physically interconnected, the TIM is electrically and thermally conductive, and the wall height plus the TIM height is sufficient to suppress resonances of the TRMs below a frequency greater than a Tx and Rx frequency band of the TRMs.

IPC 8 full level  
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