

				<sup>1</sup> D		P		<sup>3</sup> M										
4	F	P	G	<sup>5</sup> A		R	I	S	Е	T	I	M	E					
RADAR AND ANTENNAS ANSWERS AVAILABLE ONLINE AT				M			R		A		M							
				P			Е		K		О		<sup>7</sup> D					
WWW.MWJOURNAL.COM			L			С		P				I						
			I			T		О				G						
<u></u>				Т			Ι		<sup>8</sup> W	Ι	L	K	I	N	S	О	N	
SPONSORED BY		O		U			О		Е				Т					
ANALOG DEVICES		V		D			Ν		R				A					
WWW.ANALOG.COM/RF		Е		Е			A						L					
		R		<sup>10</sup> B	U	T	L	E	R	M	A	T	R	I	X			
		S		A			С						F					
		Н		L			О			<sup>11</sup> A			M					
		O		A		<sup>12</sup> B	U	N	G	Е	Е		Е					
<sup>13</sup> A		О		N			P			S			M					
<sup>14</sup> D	U	T	Y	C	Y	C	L	Е		A		15 C	О	T	S			
С				Е			Е						R					
							R						Y					

## **Across**

- **4** A device with an array of configurable logic blocks with each cell of the block programmable to perform one of many functions
- **6** The time for a power pulse to reach its target value (2 words)
- **8** A power divider consists of two parallel uncoupled  $\lambda/4$  transmission lines
- ${\bf 10}$  A type of beamforming network that enables the antenna beam is steered depending on the ports fed (2 words)
- 12 Short for Beyond Next Generation Mobile Broadband
- 14 Calculated by dividing the power envelope pulse width by the pulse repetition interval (2 words)
- 15 Short for Commercial Off the Shelf

## Down

- **1** A device that is typically constructed from two coupled transmission lines set close enough together such that energy passing through one is coupled to the other (2 words)
- **2** Calculated by dividing the average power value by the duty cycle measurement (2 words)
- 3 Short for multiple input multiple output
- **5** The power difference in dB between the two output ports of a 3 dB hybrid (2 words)
- **7** Enables the capture of a radar signal for analysis or re-transmit back with changes to fool the enemy (3 words)
- $\boldsymbol{9}$  When a power pulse goes higher than intended on the initial pulse
- 11 A type of active radar that includes hundreds or thousands of T/R modules in an array
- 13 Short for analog-to-digital converter