

PRODUCT DATASHEET CDS20-43-694/3800 20dB Directional Coupler

RFS CDS\*-43 series Directional Couplers have been designed for a variety of wireless applications in the frequency band from 694 to 3800MHz. The unit couples off a defined fraction of a RF signal from 5 to 30 dB with minimal reflections or loss. The broad frequency range is ideally suited for multi-band distributed antenna systems or in combination with RADIAFLEX® radiating cables. FEATURES / BENEFITS

## • 4.3-10-female interfaces

- PIM optimized design (160dBc @2x43dBm)
- Low insertion loss

STRUCTURE

- High power handling
- Small size, Low weight

## **Technical features**

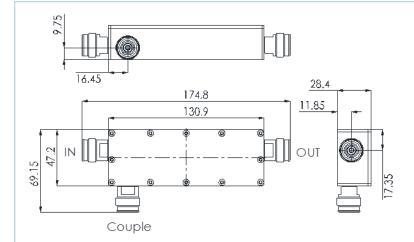
l	6	8 8	
	0		

STRUCTURE				
Product Type	Directional Coupler			
Techn. Application	Indoor			
Number of Input Ports	1			
Number of Output Ports	2			

## **ELECTRICAL SPECIFICATIONS**

Frequency Range		694 -	3800				
Connector Type		4.3-10	4.3-10 female				
Max. VSWR / Return Loss		1.30/17	1.30/17.7 (1.3)				
Insertion Loss max.	dB 0.3		3				
Coupling Value	dB	dB 20					
Coupling Flatness max.		±1	.0				
Intermodulation (IM3)		-160dBc (2	x43dBm)				
Impedance Total Input Power				Ohm W	50 400		
TEMPERATURE SP	ECIFICATI	ONS					
Temperature Range °C (°F)				-25	5 to +65 (-13 to +149)		
MECHANICAL SPE	CIFICATIO	NS					
Height	Height mm			28.4 (1.12)			
Width	Width			69.2 (2.72)			
Length mm (in)			174.8 (6.88)				
TESTING AND ENV	/IRONME	NTAL					
Environmental Class			IP65				
<b>2DS20-43-694/3800</b> REV :		REV : B	s R		: 08 Apr 2020	www.rfstechnologies.com	





External Document Links

## Notes

Directivity: ≥ 20dB @ 694-2700MHz, ≥ 18dB @ 2700-3800MHz

REV DATE : 08 Apr 2020

www.rfstechnologies.com