RFS Technologies CDS**E series Directional Coupler has been designed for outdoor applications covering 694 to 3800MHz. Units couple off a defined fraction of signal from 6 to 30 dB with minimal reflections or loss. The frequency range allows use with antennas and leaky cable systems and in wireless base stations. With minimal solder joints, the dissipative loss has been minimized and reliability enhanced.

FEATURES / BENEFITS

- · 30 dB coupling value
- · Low insertion loss
- · High power handling
- · Small size, Low weight
- · N-female connectors
- · Low PIM

Technical features

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

Number of Input Ports 1 Number of Output Ports 2 ELECTRICAL SPECIFICATIONS Frequency Range MHz 694 - 3800 Connector Type N female Max. VSWR / Return Loss VSWR/dB 1.25/19.1 (1.25)

Connector Type		N female				
Max. VSWR / Return Loss	VSWR/dB	1.25/19.1 (1.25)				
Insertion Loss max.	dB	0.2				
Coupling Value	dB	30				
Coupling Flatness max.	dB	±1.0				
Intermodulation (IM3)		-155 dBc with 2x43 dBm tones				
Directivity min.	dB	20				
Impedance	Ohm	50				
Total Input Power	W	200				

TEMPERATURE	SPECIFICATIONS

Temperature Range	°C (°F)	-25 to +65 (-13 to +149)
MECHANICAL SPECIFICATIONS		

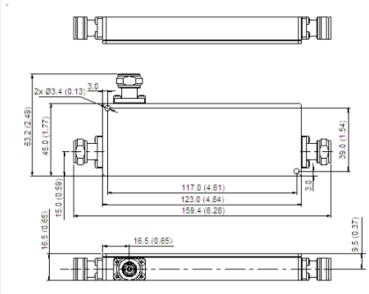
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Height	mm (in)	16.5 (0.65)
Width	mm (in)	63.2 (2.49)
Length	mm (in)	159.4 (6.28)

TESTING AND ENVIRONMENTAL

Environmental Class IP65	
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CDS30E-694/3800 REV : P1 REV DATE : 04 Nov 2019 **www.rfstechnologies.com**



Dimensions mm(inch)

External Document Links

Notes

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