

PRODUCT DATASHEET CDS10E-380/2700 10dB Directional Coupler

The RFS CDS**E Directional Coupler series provides an RF broadband solution for indoor applications covering all wireless services from 380 to 2700 MHz. The wide frequency range allows to use these couplers for multiband wireless Distributed Antenna Systems (DAS) or in combination with RADIAFLEX®radiating cable products. The units couple off a defined fraction of the signal from 6 to 30 dB fulfilling highest RF performance requirements by minimizing reflections or RF loss combined with a compact design. As all passive RF products, the CDS**E series ensures highest reliability and maintenance free operation.



CDS10E-380/2700

FEATURES / BENEFITS

- 10 dB coupling value
- Low insertion Loss
- High power handling
- Small size, Low weight
- N female connectors

Technical features

STRUCTURE

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

ELECTRICAL SPECIFICATIONS

DS10E-380/2700			R	EV : DRAF		REV DATE : 06 Apr	r 2016	www.rfstechnologies.com
	ige		(1)			-231010	5(-15(0+1+5)	
Temperature Rar	ige		°C (°F)			-25 to +65	5 (-13 to +149)	
TEMPERATURE SP	ECIFICATIO	ONS						
RF Peak Power					kW	3000		
Impedance Total Input Powei					W	200		
Directivity min.	dB	20 @380-698 MHz (18@698-2700 MHz)			Ohm	50		
Intermodulation (IM3)		150	dBc with 2x43 o	dBm tones				
Coupling Flatness max.	dB		±1.4					
Coupling Value	dB	10						
Insertion Loss max.	dB	0.8						
Max. VSWR / Return Loss	VSWR/dB	1.29/18 (1.29)						
Connector Type		N female						
Frequency Range	MHz	380 - 2700						
					-			

All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering



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Width	mm (in) mm (in) mm (in)	25 (0.98) 50 (1.97) 190 (7.48) IP65
Width Length TESTING AND ENVIRONMENTAL Environmental Class	mm (in)	50 (1.97) 190 (7.48) IP65
Length TESTING AND ENVIRONMENTAL Environmental Class		190 (7.48) IP65
TESTING AND ENVIRONMENTAL Environmental Class		IP65
Environmental Class		
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