Surface Mount **Directional Coupler** 30 to 2500 MHz 50Ω 20dB

Applications

- Defense / Military
- Military / Radio Application

RDC20-23-3WX1+



Generic photo used for illustration purposes only

CASE STYLE: TT2315

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications at -40° to 85°C

Parameter	Condition (MHz)	Min.	Тур.	Max.	Unit
Frequency Range		30		2500	MHz
	30 - 1000	—	— 0.8		
Mainline Loss ¹	1000 - 2000	—	—	1.1	dB
	2000-2500	—	_	1.5	
Coupling	30 - 2500	—	20.5±1.2		dB
Coupling Flatness (±)	30 - 2500	—	_	2	dB
Directivity	30 - 2500	—	12	—	dB
Poturn Loss (Input)	30 - 2000	12	—	—	dB
	2000-2500	10	—	—	
Poturn Loss (Output)	30 - 2000	12	—	—	dB
	2000-2500	10	_	_	
Input Power ²	30-2500	—	_	3	W

1. Mainline loss includes theoretical power loss at coupled port.

2. RDC20-23-3WX1+ can handle max. 3W up to +85°C over 30-2500 MHz

Maximum Ratings

Parameter	Ratings		
Operating Temperature	-40°C to 85°C		
Storage Temperature	-55°C to 100°C		

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

Function	Pin Number
INPUT	1
OUTPUT	6
COUPLED	3
GROUND	2
50Ω TERM EXTERNAL	4
NOT USED	5

Electrical Schematic



* ELECTRICAL SCHEMATIC IS FOR DIRECTIONAL COUPLER WITH INTERNAL TRANSFORMER(S) AND EXTERNAL TERMINATION.

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Product Marking

RDC20-23-3WX1+

Outline Drawing



Outline Dimensions (inch)

F	E	D	C	B	A
.040	.050	.100	.140	.280	.250
1.02	1.27	2.54	3.56	7.11	6.35
wt.		K	J	H	G
grams		.050	.310	.100	.040
0.35		1.27	7.87	2.54	1.02