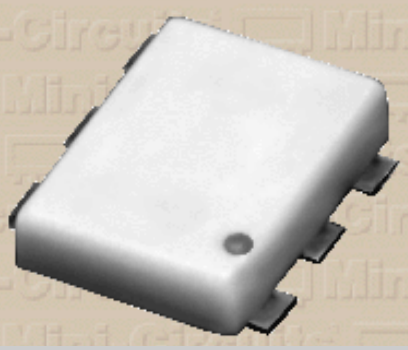
Directional Coupler



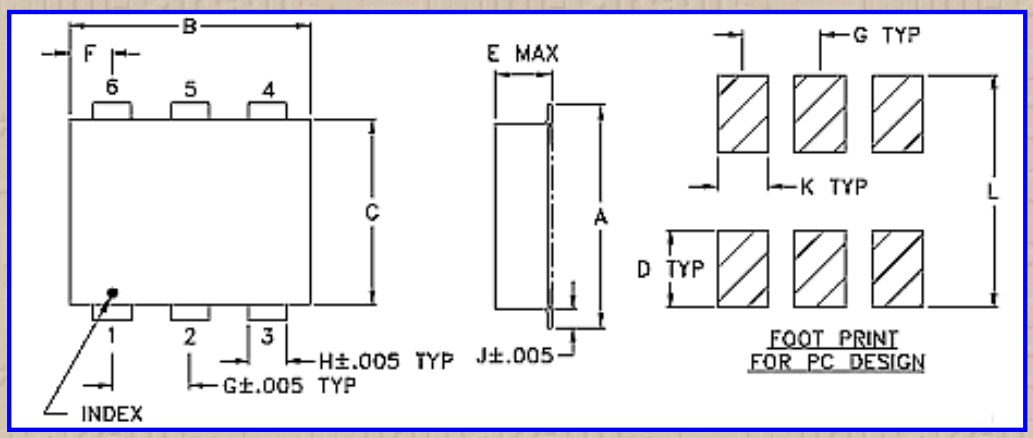
ADC-20-4

Frequency MHz	Coupling dB		Mainline Loss dB						Directivity dB			VSWR (:1)	Power INPUT, W	
f_L - f_U	Nom.	Flatness	L Typ.	L Max.	M Typ.	M Max.	U Typ.	U Max.	L Typ.	M Typ.	U Typ.	Typ.	L Max.	MU Max
5.00-1000	20.0±0.50	±0.8	0.40	0.80	0.50	1.00	0.70	1.30	20	21	21	1.10	1.0	1.0

L=low range(f_L to 10f_L) M=mid range(10f_L to f_U/2) U=upper range(f_U/2 to f_U)

Pin Connections

Port	Input	Output	Coupled (forward)	Coupled (reverse)
kd	1	6	3	-
Not Used	Case GND	Termination	GND	
5	-	4	2	



Notes:

- Aqueous washable. For non-aqueous requirements, LRDC units available in case style QQQ130.
- Mainline Loss includes theoretical power loss at coupled port.
- For Surface Mount Environmental Specifications, please click here.
  Re-flow soldering information is available in "Surface Mount" article.
- For pin connection kd and lt : external resistor required
- Derate linearly to 35% max. input power at 100°C
- General Quality Control Procedures and Environmental Specifications are given in Mini-Circuits Guarantees Quality.
  Hi-Rel, MIL description are given in Hi-Rel and MIL
- Prices and Specifications subjects to change without notice.

Case Style - CD542 (inch,mm) weight: 0.2 grams.

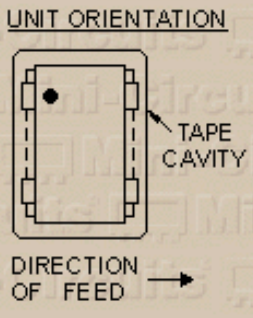
A	B	C	D	E	F	G	H	J
.280 7.112	.310 7.874	.220 5.588	.100 2.540	.112 2.845	.055 1.397	.100 2.540	.030 0.762	.030 0.762
K	L	M	N	P	Q	R	S	T
.065 1.651	.300 7.620							

Tolerance: .x ± .1 .xx ± .03 .xxx ± .015 inch.

Material and Finish:

Case material: plastic. Lead finish: tin-lead plate or tin plate.

Packaging:



Packaging information:
Tape Width(mm): 16
Reel Size(inches): 13
Device Cavity Pitch(mm): 12
Devices Per Reel: 1000

FREQ (MHz)	I. Loss (dB) In-Out	Coupling (dB) In-CPL	Directivity (dB)	Return Loss (dB)		
				In	Out	CPL
5.00	0.35	19.49	21.07	26.82	28.08	23.37
10.00	0.32	19.55	20.63	30.04	32.37	26.49
50.00	0.32	19.62	20.64	32.99	37.40	30.48
150.00	0.37	19.68	21.01	33.06	35.38	30.96
250.00	0.38	19.80	21.28	34.14	34.19	31.95
350.00	0.40	19.89	21.32	34.05	31.30	32.90
500.00	0.45	20.05	21.18	36.20	31.48	34.55
750.00	0.53	20.28	20.90	31.32	31.73	34.59
870.00	0.53	20.31	20.71	28.29	31.27	31.88
1000.00	0.68	20.49	20.03	25.43	28.94	28.09

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i2 Technologies US, Inc.
15445 Innovation Drive
San Diego, CA 92128

i2 Technologies US, Inc.

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