Directional Coupler

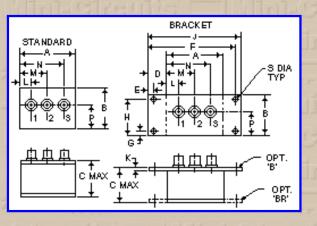


ZMDC-20-1

ı	Frequency Coupling MHz dB		Mainline Loss dB			Directivity dB			VSWR (:1)	Pow INPU		
ı	f _L - f _U	Nom.	Flatness	L Typ. Max.	M Typ. Max.	U Typ. Max.	L Typ. Min.	M Typ. Min.	U Typ. Min.	Тур.	L Max.	MU Max
1	25-400	21.0±0.75	±0.5	0.20 0.25	0.30 0.35	0.35 0.50	25 20	35 25	25 20	1.25	3.0	5.0

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 (forward) Coupled (forward) Coupled (reverse) dd 3 2 1 Not Used Case GND Termination GND



Case Style - M21 (inch,mm) weight: 40 grams.

Α	В	С	D	E	F	G	Н	J
			.50 12.700					
36.100	20.702	25.400	12.700	3.937	59.563	3.505	25.070	63.500
K	L	М	N	Р	Q	R	S	Т
.10	.31	.75	1.19	.66			.150	
2.540	7.874	19.050	30.226	16.764			3.810	

Tolerance: $.x \pm .1 .xx \pm .03 .xxx \pm .015$ inch.

Material and Finish:

Case material: aluminum alloy. Finish: blue anodized.

Mounting bracket finish: iridite or clear anodize.

Case material: aluminum alloy. Finish: blue paint over iridite.

Mounting:

Mounting bracket available on request. For bracket mounted on connector end add suffix B to part number and \$5.00 to unit cost. For bracket mounted on the rear, add suffix BR to part number and add \$1.50 to unit cost.

Marking:

For port markings 1, 2, and 3 see specification data sheet.

Connectors

Connectors: Female SMA only. Male SMA available on request, consult factory.

Notes:

- · Mainline Loss includes theoretical power loss at coupled port.
- L = 25-50 MHz, M = 50-300 MHz, U = 300-400 MHz
- General Quality Control Procedures and Environmental Specifications are given in <u>Mini-Circuits Guarantees Quality</u>.

Hi-Rel, MIL description are given in Hi-Rel and MIL

• Prices and Specifications subjects to change without notice.

FREQ	I. Loss (dB)	Coupling (dB)	Directivity (dB)	Return Loss (dB)			
(MHz)	In-Out	In-CPL	Directivity (ub)	In	Out	CPL	
25.00	0.14	20.90	39.03	38.82	46.83	46.62	
50.00	0.18	20.91	38.76	38.41	43.91	43.34	
100.00	0.22	20.98	36.87	37.98	38.48	37.78	
118.75	0.23	21.05	35.93	37.56	36.95	36.63	
200.00	0.24	21.03	31.74	35.84	32.57	32.64	
212.51	0.27	21.04	31.42	35.51	32.18	32.20	
254.17	0.27	21.06	30.87	34.98	30.91	31.28	
316.68	0.27	21.07	29.28	33.88	29.06	30.42	
389.60	0.31	21.07	28.01	32.78	27.58	30.10	
400.00	0.32	21.07	27.86	32.68	27.39	30.03	



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