

Directional Coupler

TODC-10-1



Frequency MHz	Coupling dB		Mainline Loss dB						Directivity dB			VSWR (:1)	Power INPUT, W					
	$f_L - f_U$	Nom.	Flatness	L		M		U		L			M	U	Typ.	L	MU	
				Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Max.		
10-400	11.3±0.50	±0.5		1.20	1.50	1.00	1.30	1.20	1.50	35	25	30	20	25	20	1.50	0.5	1.0

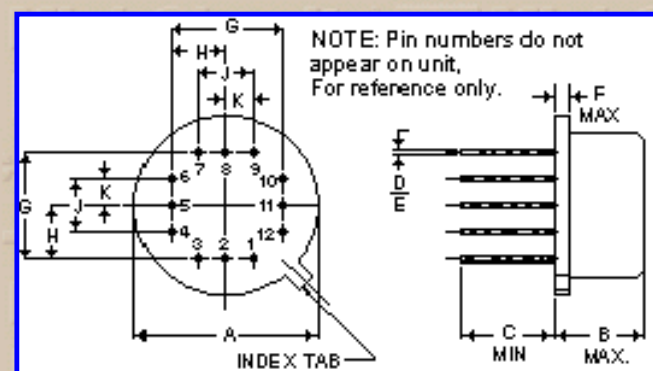
L=low range(f_L to $10f_L$) M=mid range($10f_L$ to $f_U/2$) U=upper range($f_U/2$ to f_U)

Pin Connections

Port	Input	Output	Coupled (forward)	Coupled (reverse)
ct	5	8	2	-
Not Used	Case GND	Termination	GND	
11	All other pins	-	-	

Notes:

- Mainline Loss includes theoretical power loss at coupled port.
- For PDC-HP models, external heat sinking is recommended to reduce case temperature.
- 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.



FREQ (MHz)	I. Loss (dB) In-Out	Coupling (dB) In-CPL	Directivity (dB)	Return Loss (dB)		
				In	Out	CPL
10.00	0.63	11.50	52.78	32.35	24.87	24.61
20.00	0.66	11.52	50.12	31.88	24.97	24.78
50.00	0.71	11.56	45.69	29.41	24.34	24.55
100.00	0.77	11.61	39.88	25.13	22.64	23.95
130.00	0.80	11.63	37.04	23.08	21.55	23.57
200.00	0.87	11.67	31.63	19.67	19.21	22.51
230.00	0.89	11.68	29.69	18.62	18.34	22.10
320.00	0.99	11.71	24.82	16.10	16.23	21.03
390.00	1.03	11.70	21.73	14.62	14.91	20.44
400.00	1.04	11.70	21.32	14.44	14.76	20.40

Case Style - QQ96 (inch,mm) weight: 4 grams.

A	B	C	D	E	F	G	H	J
.600	.250	.25	.016	.020	.04	.400	.200	.200
15.240	6.350	6.350	0.406	0.508	1.016	10.160	5.080	5.080
K	L	M	N	P	Q	R	S	T
.100								
2.540								

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

Material and Finish:

Header and lead finish: gold plate per MIL-G-45204. Case material: Nickel

Marking:

For Pin designations see specification data sheet.



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