

Directional Coupler



DBTC-ED10488/1

Frequency MHz	Coupling dB		Mainline Loss dB			Directivity dB			VSWR (:1)	Power INPUT, W		
	Nom.	Flatness	L Typ. Max.	M Typ. Max.	U Typ. Max.	L Typ. Min.	M Typ. Min.	U Typ. Min.		Typ.	L Max.	MU Max
$f_L - f_U$												
0.50-1150	7.00±1.00	±1.0	3.20	2.20	2.30	13	15	13	1.40			

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)

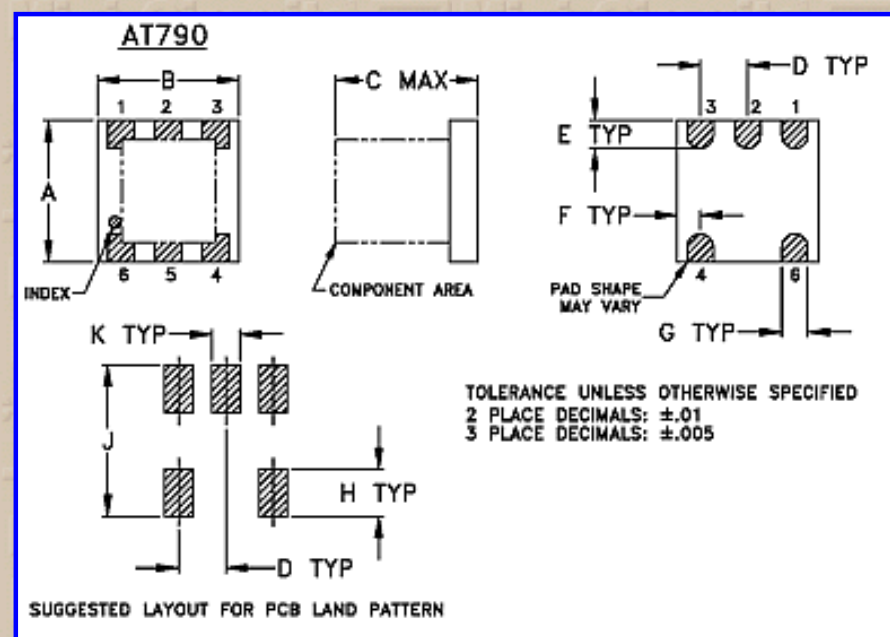


Pin Connections

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

Notes:

- For Surface Mount Environmental Specifications, please click [here](#). Re-flow soldering information is available in "[Surface Mount](#)" article.
- Non-catalog model. Please consult factory for price and delivery.
- 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 - AT790 (inch,mm) weight: 0.1 grams.

A	B	C	D	E	F	G	H	J
.150	.150	.150	.050	.030	.025	.028	.050	.160
3.810	3.810	3.810	1.270	0.762	0.635	0.711	1.270	4.064
K	L	M	N	P	Q	R	S	T
.030								
0.762								

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

Material and Finish:

Open style, Ceramic Base. Termination Finish: Palladium Silver.

Packaging:

FREQ (MHz)	I. Loss (dB) In-Out	Coupling (dB) In-CPL	Directivity (dB)	Return Loss (dB)		
				In	Out	CPL
0.50	3.66	7.45	12.06	8.65	8.88	9.03
0.70	3.39	7.34	12.69	9.62	9.90	10.69
0.90	3.22	7.26	13.08	10.25	10.56	11.83
1.00	3.13	7.22	13.24	10.52	10.85	12.32
3.00	2.49	6.87	14.73	13.05	13.48	18.17
5.00	2.32	6.80	15.26	13.93	14.39	21.63
7.00	2.24	6.75	15.45	14.32	14.80	24.21
9.00	2.21	6.74	15.58	14.53	15.03	26.24
10.00	2.20	6.73	15.68	14.60	15.09	27.33
20.00	2.17	6.74	15.78	14.89	15.39	34.98
40.00	2.16	6.74	15.74	15.00	15.42	40.53
60.00	2.18	6.75	15.64	15.02	15.43	35.86
80.00	2.20	6.78	15.58	15.04	15.39	33.17
100.00	2.21	6.78	15.66	15.07	15.51	31.20
150.00	2.20	6.81	15.53	15.16	15.34	27.25
200.00	2.22	6.82	15.43	15.30	15.15	24.62
250.00	2.22	6.85	15.42	15.52	14.92	22.82
300.00	2.22	6.83	15.41	15.67	14.70	21.35
350.00	2.21	6.83	15.55	15.71	14.46	20.14
400.00	2.23	6.84	15.49	15.82	14.29	19.11
450.00	2.23	6.87	15.57	15.87	14.05	18.49
500.00	2.24	6.88	15.62	15.81	13.79	17.67
550.00	2.26	6.90	15.68	15.72	13.56	17.13
600.00	2.25	6.89	15.94	15.78	13.41	16.86
650.00	2.26	6.92	16.02	16.05	13.15	16.50

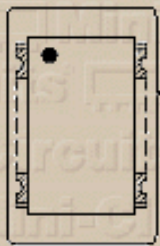
UNIT ORIENTATION**Packaging information:**

Tape Width(mm): 12


Reel Size(inches): 13

Device Cavity Pitch(mm): 8

Devices Per Reel: 2000

DIRECTION
OF FEED →TAPE
CAVITY

700.00	2.28	6.94	16.15	16.14	13.08	16.13
750.00	2.26	6.96	15.90	16.36	12.97	15.87
800.00	2.28	6.95	15.65	16.78	12.85	15.80
850.00	2.25	6.93	15.21	17.07	12.73	15.81
860.00	2.26	6.95	15.15	17.16	12.69	15.69
900.00	2.29	6.95	14.62	17.31	12.64	15.87
950.00	2.29	6.99	13.85	17.89	12.57	15.85
1000.00	2.33	7.06	13.04	18.70	12.38	15.93
1050.00	2.33	7.09	12.13	19.40	12.26	15.99
1100.00	2.35	7.16	11.29	19.99	12.13	16.25
1150.00	2.35	7.27	10.42	20.75	11.95	16.31
1200.00	2.37	7.32	9.67	21.62	11.73	16.72
1250.00	2.35	7.48	8.93	22.07	11.53	16.76
1300.00	2.39	7.56	8.19	22.86	11.25	17.02
1350.00	2.38	7.63	7.67	23.86	11.01	17.01
1400.00	2.44	7.74	7.13	23.86	10.64	17.30


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