ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Mini-Circuits GK-3* at our website: ***Click HERE***

Coaxial

Directional Coupler

50Ω 0.5 to 500 MHz

ZDC-10-1+
ZDC-10-1



CASE STYLE: M22

Connectors	Model	Price	Qty.
BNC	ZDC-10-1(+)	$44.95 ea.	(1-9)
BRACKET (OPTION"B")		$5.00	(1+)
BRACKET (OPTION"BR")		$1.50	(1+)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C

Coaxial Connections

INPUT	3
OUTPUT	2
COUPLED	1

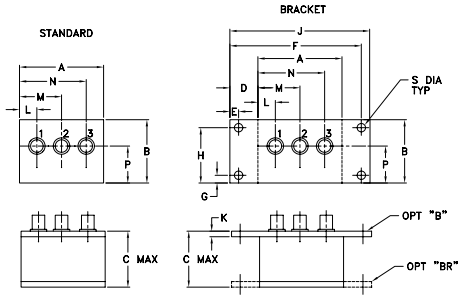
Features

- excellent directivity, 32 dB typ.
- excellent insertion loss, 0.65 dB typ.
- rugged shielded case

Applications

- VHF/HF
- instrumentation
- communication receivers & transmitters

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H
2.25	1.38	1.24	.50	.150	3.100	.138	1.238
57.15	35.05	31.50	12.70	3.81	78.74	3.51	31.45

J	K	L	M	N	P	S	wt
3.25	.10	.40	1.15	1.86	.64	.150	grams
82.55	2.54	10.16	29.21	47.24	16.26	3.81	74.0

Directional Coupler Electrical Specifications

FREQ. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS[1] (dB)						DIRECTIVITY (dB)						VSWR (:1)	POWER INPUT (W)	
			L		M		U		L		M		U			L	MU
f_L-f_U	Nom.	Flatness	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Max.
0.5-500	11.5±0.5	±0.6	0.85	1.3	0.65	1.0	0.85	1.3	32	25	32	25	22	15	1.2	1.5	3.0

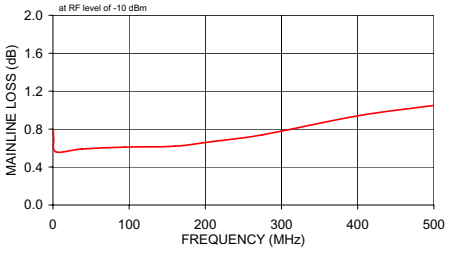
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

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

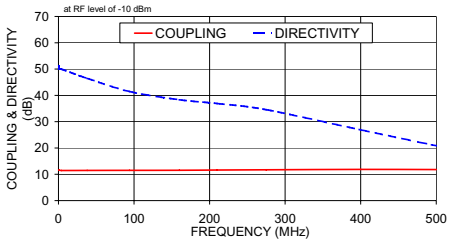
Typical Performance Data

Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB) In	Return Loss (dB) Out	Return Loss (dB) Cpl
0.50	0.79	11.64	51.25	23.85	19.63	19.66
0.90	0.70	11.56	50.03	27.29	21.30	21.28
4.00	0.56	11.44	49.98	34.05	24.12	23.94
38.00	0.59	11.48	46.48	35.54	23.96	23.10
94.00	0.61	11.51	41.48	32.20	23.33	20.84
160.00	0.62	11.54	38.35	28.76	22.29	18.21
210.00	0.67	11.63	36.91	26.97	21.43	16.63
275.00	0.74	11.71	34.57	25.19	20.29	15.00
400.00	0.94	11.85	26.91	22.30	18.40	13.06
500.00	1.05	11.79	20.87	19.79	17.45	12.48

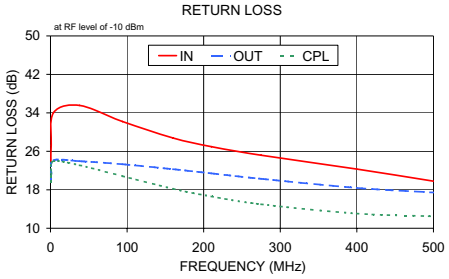
ZDC-10-1
MAINLINE LOSS



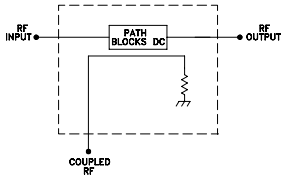
ZDC-10-1
COUPLING & DIRECTIVITY



ZDC-10-1
RETURN LOSS



electrical schematic



Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP