26 dB DC Pass

High Power Signal Tap

ZARC-26-12+

50Ω 100W 20 to 100 MHz

CASE STYLE: AW1564

The Big Deal

- High Power Handling, 100 W
- Excellent Mainline Loss, 0.1 dB typ.
- Excellent VSWR, 1.1:1 typ.

Product Overview

The ZARC-26-12+ high power signal tap is ideal for monitoring up to 100 W RF signals in SW and VHF applications. Overall dimensions are 3.00” x 2.81” x 2.03” high. The rugged aluminum alloy case features stainless steel SMA connectors and an anodized aluminum heat sink, enclosing a welded module for reliable, long-term performance.

Feature	Advantages
0.1 dB typ. mainline loss	Extremely low internal power dissipation, reducing mainline loss and internal temperature for high reliability
±0.2 dB coupling flatness	Provides highly accurate sampling of signal power
VSWR 1.1:1 typ	Excellent 50Ω impedance matching minimizes interference with signal integrity
DC Pass up to 3A	Suitable for applications using remote antenna control or other remote motorized requirements
100 W input maximum	High power capacity, combined with excellent insertion loss and VSWR, supports operation in transmitters and base stations for amateur radio, PMR, FM, broadcast TV, aviation, and military applications

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Connectors	Model
SMA	ZARC-26-12-S+

+RoHS Compliant

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

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input	100W max.
DC Current (IN-OUT)	3A

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

INPUT	1
OUTPUT	2
COUPLED	3

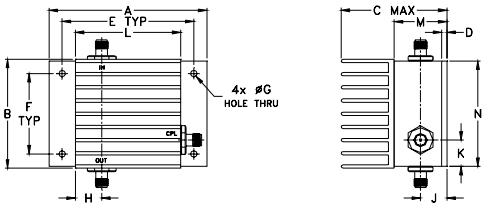
Features

- excellent mainline loss, 0.1 dB typ.
- very flat coupling ±0.2 dB typ.
- excellent VSWR, 1.1 typ.

Applications

- instrumentation
- amateur radio

Outline Drawing

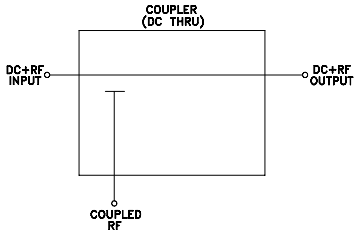


Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
3.00	2.06	2.03	.10	2.500	1.525	.125
76.20	52.32	51.56	2.54	63.50	38.74	3.18

H	J	K	L	M	N	wt
.50	.50	.50	2.00	1.00	2.00	grams
12.70	12.70	12.70	50.80	25.40	50.80	230

Electrical Schematic



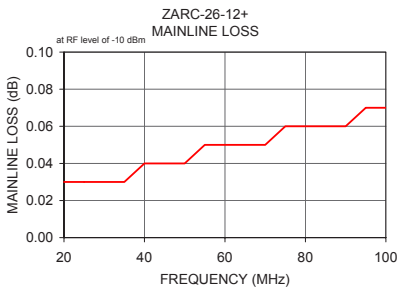
Electrical Specifications at 25°C

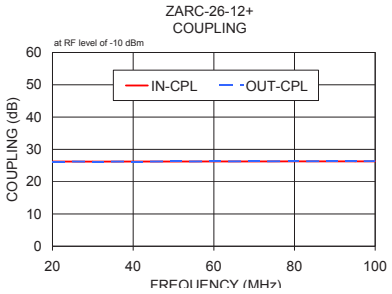
Parameter	Condition (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		20		100	MHz
Mainline Loss (above theoretical 0.011 dB)	20	—	0.03	0.10	dB
	60	—	0.06	0.15	
	100	—	0.10	0.20	
Coupling* (IN-CPL, OUT-CPL)	20 - 100		26.3		dB
	20	25.9	26.2	26.6	
	60	25.8	26.3	26.8	
	100	25.6	26.4	27.2	
Coupling Flatness(±)	20 - 60	—	0.05	0.20	dB
	60 - 100	—	0.10	0.25	
Return Loss (Input)	20	25	36	—	dB
	60	20	27	—	
	100	18	23	—	
Return Loss (Output)	20	25	36	—	dB
	60	20	27	—	
	100	18	23	—	
Return Loss (Coupling)	20	25	45	—	dB
	60	25	34	—	
	100	20	30	—	
Input Power	20 - 100	—	—	100	W

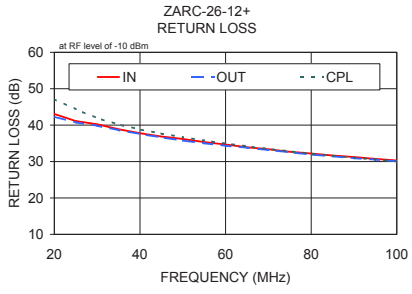
* Coupling can be used for both forward and reversed direction.

Typical Performance Data

Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Coupling (dB) Out-Cpl	Return Loss (dB) In	Return Loss (dB) Out	Return Loss (dB) Cpl
20.00	0.03	26.23	26.23	43.05	42.30	47.14
30.00	0.03	26.21	26.22	40.25	39.82	41.93
40.00	0.04	26.23	26.24	37.78	37.57	38.81
50.00	0.04	26.24	26.27	36.20	35.75	36.68
60.00	0.05	26.26	26.28	34.69	34.33	34.95
70.00	0.05	26.27	26.31	33.39	33.15	33.47
80.00	0.06	26.28	26.33	32.20	31.90	32.19
90.00	0.06	26.28	26.35	31.24	30.91	31.06
95.00	0.07	26.28	26.36	30.73	30.51	30.54
100.00	0.07	26.28	26.37	30.29	30.05	30.04







Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp