ZT Series

Product features and applications

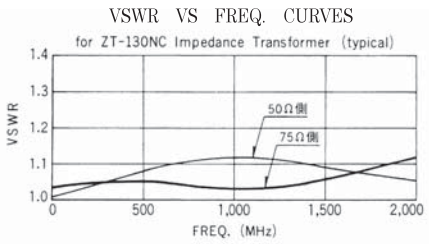
The ZT series are 50–75 Ohm impedance transformers for broadband use, with a low reflection coefficient. This series includes two models: One is a resistive type with lower transformer loss, and the other is a transformer type with lower insertion loss. Select the one according to your application.A variety of input/output connectors are available; see the standard specifications below.

	Common Specifications	
	ZT	
Frequency Range (MHz)	Resistive	Transformer
	DC～2000	10～300 10～1000 20～2000
Impedance	50Ω : 75Ω	
Power(Max.)	0.5W (Max.)	
Operating temperature range	−10～+50℃	

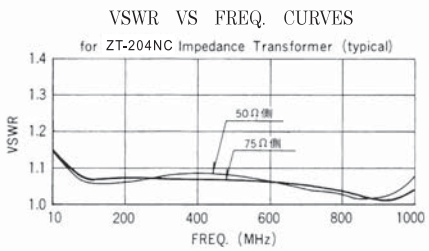
ZT series Standard Specifications

Models	Frequency Range (MHz)	Converting type	Insertion loss (dB)	VSWR (Max.)	Connectors		Weight
					50Ω	75Ω	
ZT-130NC	DC~2000	Resistive	6dB±1.0dB	1.3	NP	NCJ	About 140 g
ZT-145	DC~2000	Resistive	6dB±1.0dB	1.3	NP	NCJ	About 100 g
NEW ZT-187BB	DC~2000	Resistive	6dB±1.0dB	1.3	BNC-P	BNC-J	About 50 g
ZT-201BB	10~300	Transformer	1dB (Max.)	1.3	BNC-P	BNC-J	About 55 g
ZT-202BC	10~1000	Transformer	1dB (Max.)	1.3	BNC-P	NCJ	About 70 g
ZT-204NC	10~1000	Transformer	1dB (Max.)	1.3	NP	NCJ	About 100 g
ZT-206XN	10~1000	Transformer	1dB (Max.)	1.3	SMAP	NCJ	About 70 g
ZT-301	20~2000	Transformer	1.5GHz･･･1.5dB (Max.) 2.0GHz･･･2.0dB (Max.)	1.3	NP	NCJ	About 100 g

[Resistive]

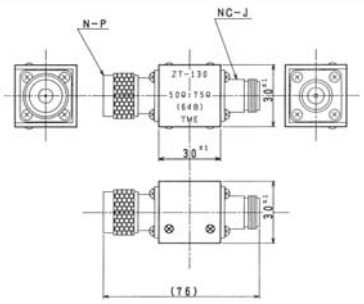


[Transformer]

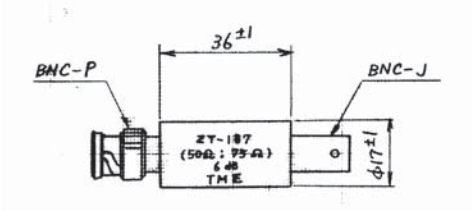


Outline Drawings

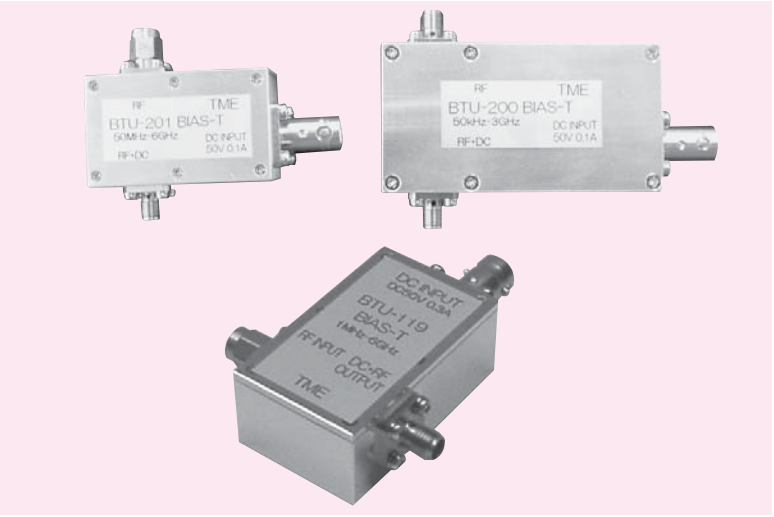
ZT-130NC



ZT-187BB



SCD・BTU Series



Product features and applications

The SCD series are diode detectors available for the 10-2,000 MHz frequency range.
This series boasts a compact and lightweight design, flat frequency response, high sensitivity and low VSWR and can be used for various purposes.
The BTU series are bias tees available for the 10-6,000 MHz frequency range.It can supply DC power to active elements suchas transistors, mounted between coaxial transmission lines.

BCD series DETECTORS

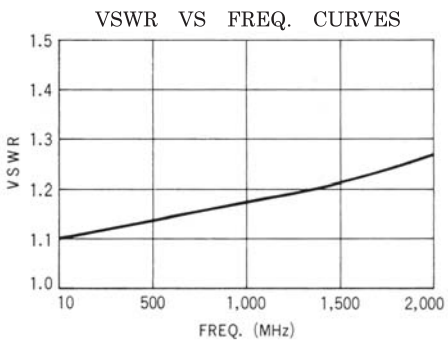
Models	Frequency Range (MHz)	Impedance (Ω)	VSWR (Max.)	Frequency Level Devation (Max.)(dB)	Power(Max.) (dBm)	Output Connector For Detection line (Min.)	Output positive or negative	RF Connectors	Conne-ctors
SCD-101DB	10~2000	50	1.3	3	+20	100mV (0dBm at input)	+	BNCP	BNCJ
SCD-101DN	10~2000	50	1.3	3	+20	100mV (0dBm at input)	+	NP	BNCJ

BTU series BIAS-Tees

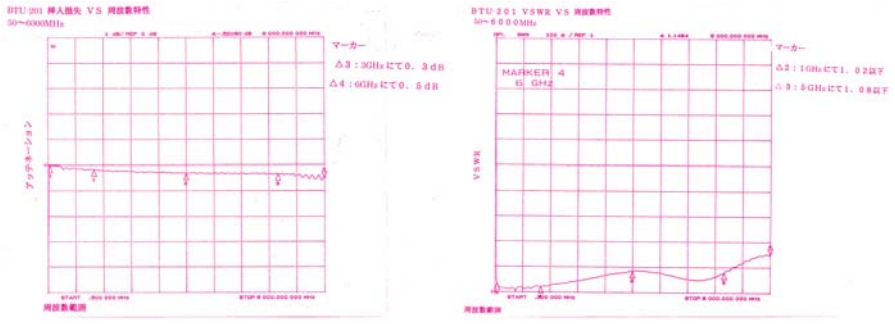
Models	Frequency Range (MHz)	Impedance (Ω)	VSWR (Max.)	Insertion Loss (Max.)(dB)	RF port to DC port (V)	Current(A)	RF port power (W)	Connectors
BTU-200	0.05~3000	50	1.2	0.7	50	0.1	1	RF,RF+DC:SMA-J DC INPUT:BNC-J
BTU-201	50~6000	50	1.2	0.7	50	0.1	1	RF,:SMA-P RF+DC:SMA-J DC INPUT:BNC-J

Frequency Characteristics

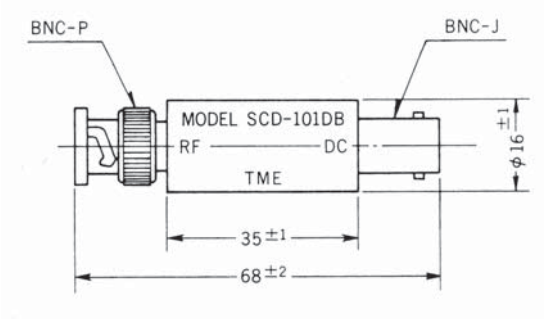
SCD



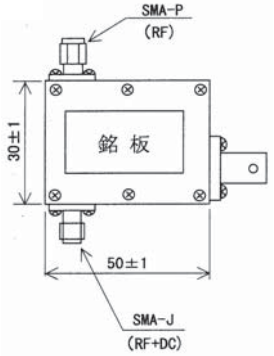
BTU



SCD-101DB

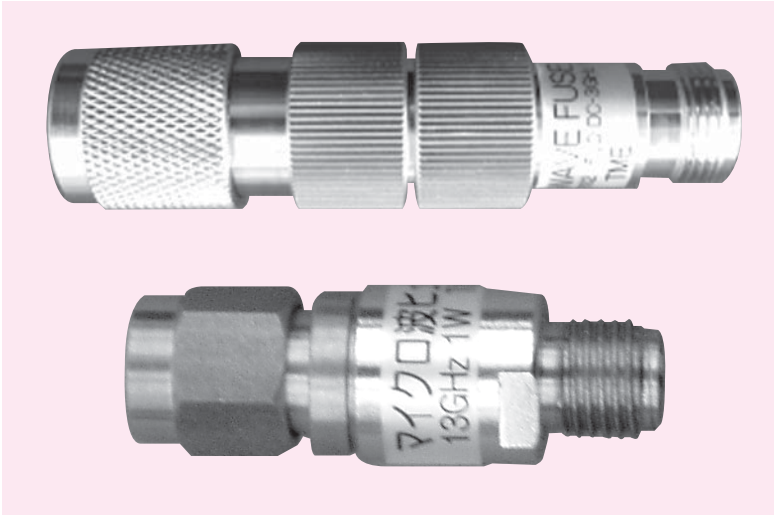


BTU-201



TAMAGAWA ELECTRONICS CO.,LTD.
3-11-23, Kamituchidana-naka,Ayase City,Kanagawa, 252-1113 Japan Tel.81-467-76-2291 FAX.81-467-70-4390

UZA・SZA Series



■ Product features and applications

The UZA/SZA series are used for circuit protectors against overvoltage (microwave fuse) for high-frequency measuring instruments. The applicable frequency ranges are up to DC-3,000 and DC-13,000 MHz. They are also useful as input circuit protectors for various measuring instruments like network analyzers, spectrum analyzers and power meters. The UZA series, supporting up to DC-3,000 MHz, features replaceable fuses; two fuses are included in a set as accessories.

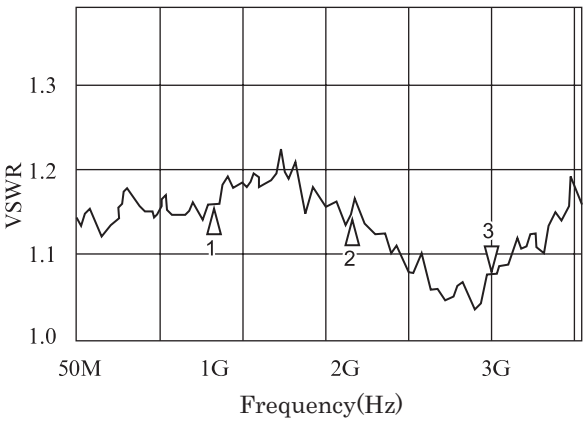
Models	Frequency Range (MHz)	Impedance (Ω)	VSWR (Max.)	Insertion Loss dB (Max.)	Max. power (dBm)	Rated power (dBm)	Connectors	Operating Temperature Range	Dimensions (mm)	Others
UZA-002	DC~3000	50	1.3	0.7	+20dBm	+30dBm以上	N−P,N−J	0~+45℃	φ21＊58	−
UZA-003	DC~3000	50	−	−	−	−	−	−	−	For UZA002 (note:1)
SZA-001	DC~13000	50	1.5	1.4	+20dBm	+30dBm以上	SMA-P,SMA-J	0~+45℃	-	

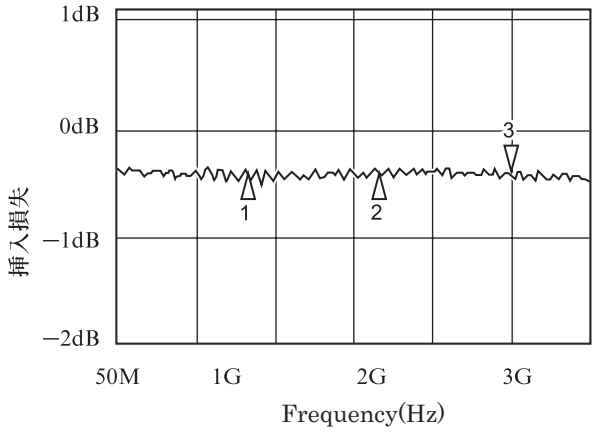
(note:1)Optional fuse for UZA002

■ Characteristics (UZA-002)

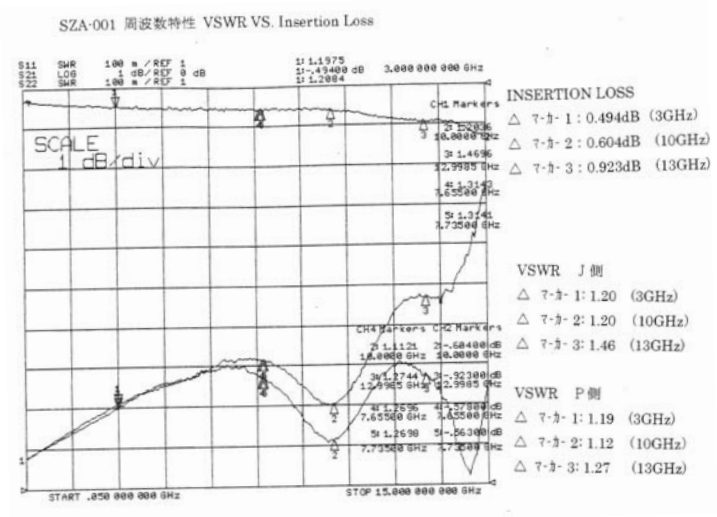
Frequency Chracteristic

VSWR



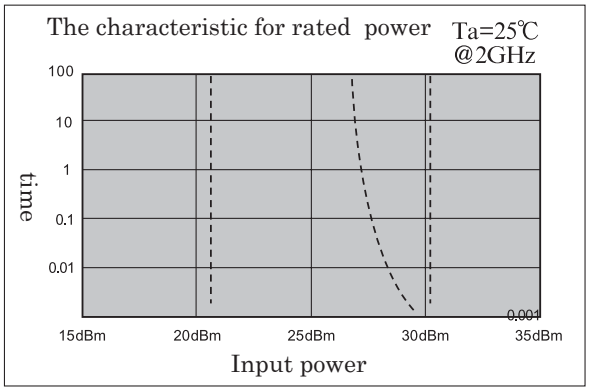


■ Characterictic (SZA-001)

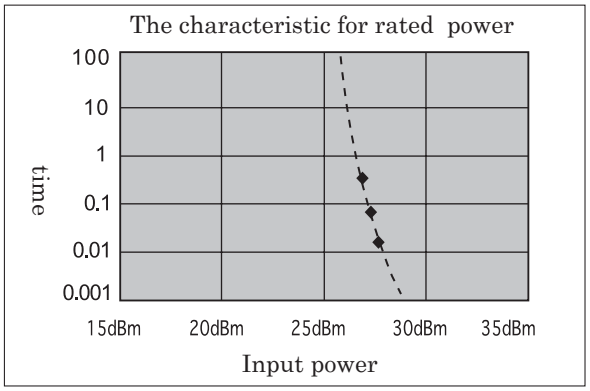


The characteristic for rated power

UZA-002

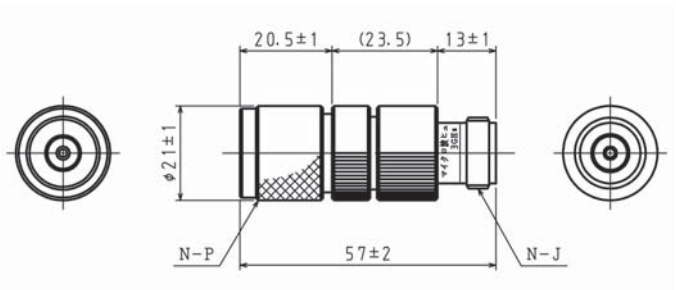


SZA-001

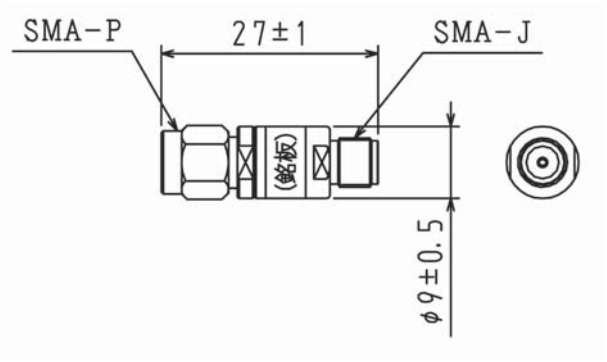


Outline Drawings

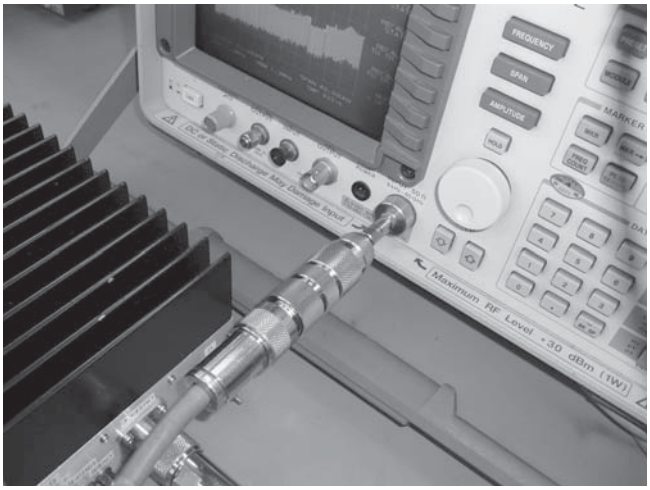
UZA-002



SZA-001



Example of use



TAMAGAWA ELECTRONICS CO.,LTD.
3-11-23, Kamituchidana-naka,Ayase City,Kanagawa, 252-1113 Japan Tel.81-467-76-2291 FAX.81-467-70-4390