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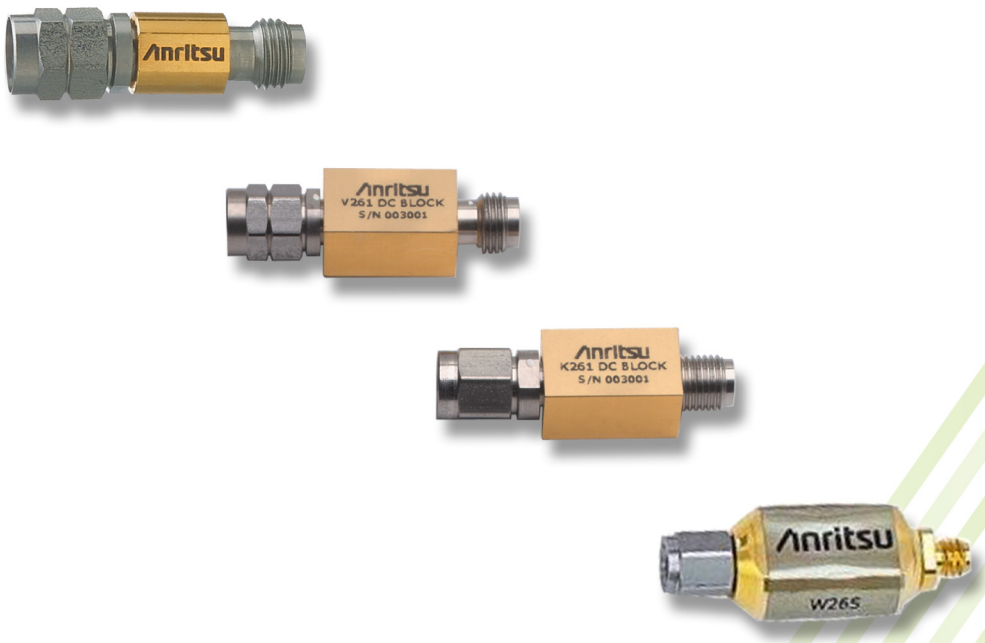
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Anritsu Advancing beyond

DC Blocks

K261/V261 Wide Band DC Block
10 kHz to 40 GHz
50 kHz to 65 GHz

V265/W265 Precision Wide-Band DC Block
50 kHz to 65 GHz
50 kHz to 110 GHz



Introduction

Anritsu DC blocks are optimized for optical communications and other high speed pulse, data, or microwave/millimeter applications. Designed to apply AC drive signals to a device while eliminating any DC components.

Features

- 50 kHz to 110 GHz frequency coverage DC blocks
- W1 connectors™ are compatible with 1.00 mm connectors
- V connectors™ are compatible with 2.4 and 1.85 mm connectors
- K connectors™ are compatible with SMA, 3.5 and 2.92 mm connectors
- Design is robust and well suited for high frequency system and instrumentation applications
- Good return loss and minimal insertion loss

Specifications

Available Models

Model	Frequency Range (GHz)	RF Connectors	Impedance (Ω)	Capacitance (nF)
W265	50 kHz to 110	In: W1(m) Out: W1(f)	50	10
V265	50 kHz to 65	In: V(m) Out: V(f)	50	80
V261	50 kHz to 65	In: V(m) Out: V(f)	50	80
K261	10 kHz to 40	In: K(m) Out: K(f)	50	220

Specifications

Electrical

Typical specifications are not tested and are not warranted. They are generally representative of characteristic performance. Warranty: 1 year.
All specifications subject to change without notice. For the most current data sheet, please visit the Anritsu web site: www.anritsu.com

Model	Insertion Loss (dB)	Return Loss	Max DC Voltage (V)	Max RF Power (W)	Rise Time[a] (ps)	Group Delay[a] (ps)	Leakage Current[a]
W265	2.5[b]	4 dB min @ 50 kHZ to 1 MHz 15 dB min @ > 1 MHz to 26 GHz 10 dB min @ > 26 GHz to 65 GHz 8 dB min @ > 65 GHz to 110 GHz	16[c]	1	3.2	94 ±2	100 pA
V265	< 0.7[a]	15 to 65 GHz[a]	16	1	3	84 ±2	100 pA
V261	< 2.0[a]	See plot	16	1	< 5	113 ±2	50 pA
K261	< 1.0[a]	See plot	16	1	< 7	110 ±2	50 nA

a. Typical
b. Maximum
c. Minimum

General

Weight	W265: 6.24 g V265: 6.99 g V261: 7.65 g K261: 7.65 g

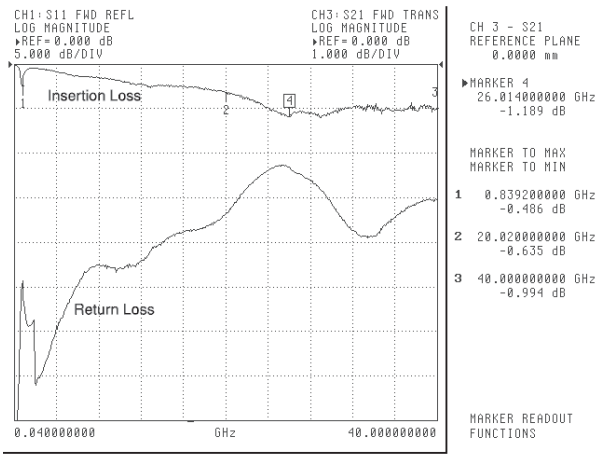
Environmental

Tests per MIL-STD-202F

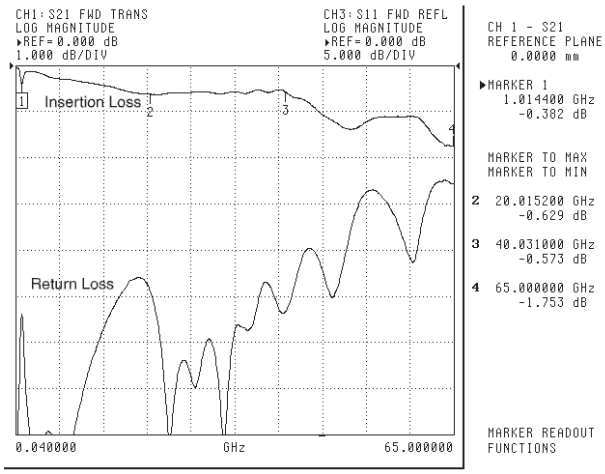
Thermal Shock	-55 °C to +150 °C
Shock	100g peak sawtooth, method 213, test condition 1
Vibration	Sinewave: 10 Hz to 2000 Hz, 0.06" DA, method 204, test condition D Random: 50 Hz to 2000 Hz, 11.6 Grams, Power Spectral Density 0.1 Grams 2/Hz, Method 214, Test Condition 1, Letter D

Regulatory Compliance

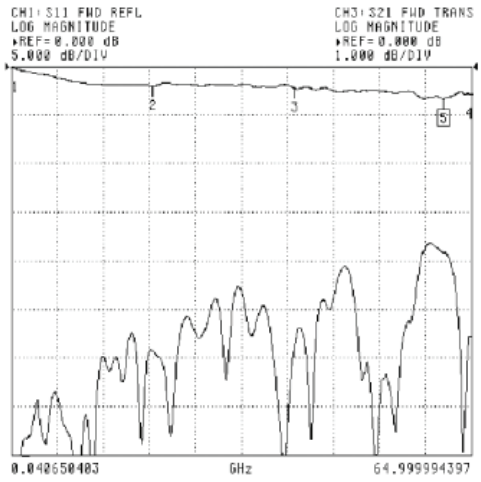
V265, K261, V261, W265	RoHS Directive 2015/863/EU



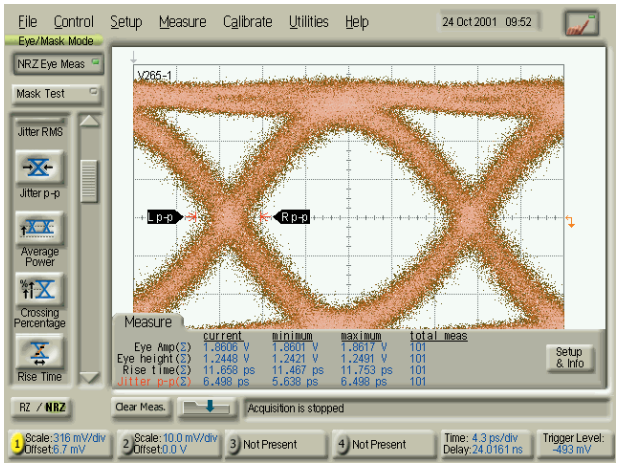
K261 Typical Return Loss/Insertion Loss



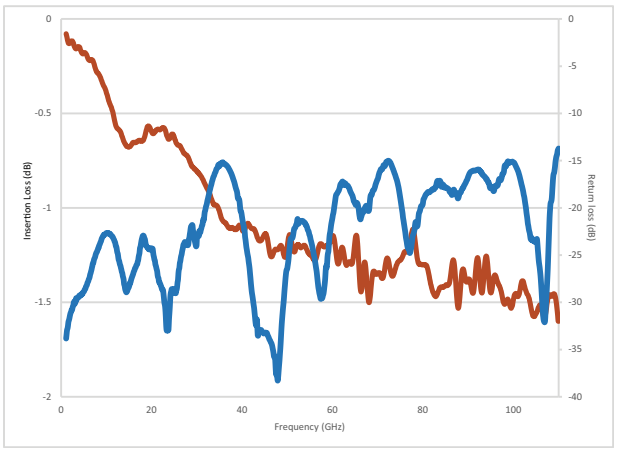
V261 Typical Return Loss/Insertion Loss



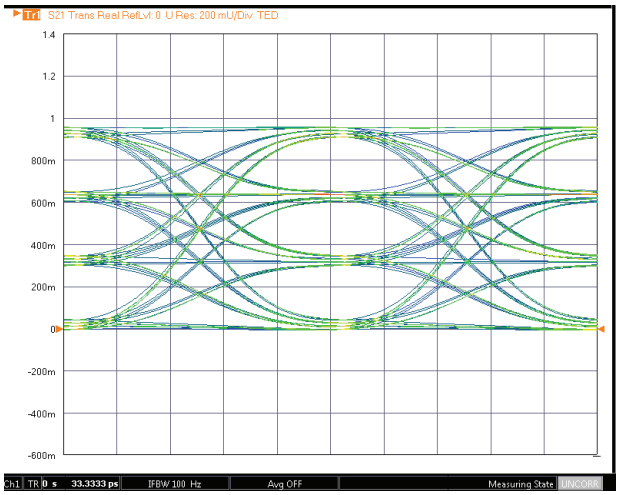
V265 Typical Return Loss/Insertion Loss



V265 Typical Eye Diagram



W265 Typical Return Loss/Insertion Loss

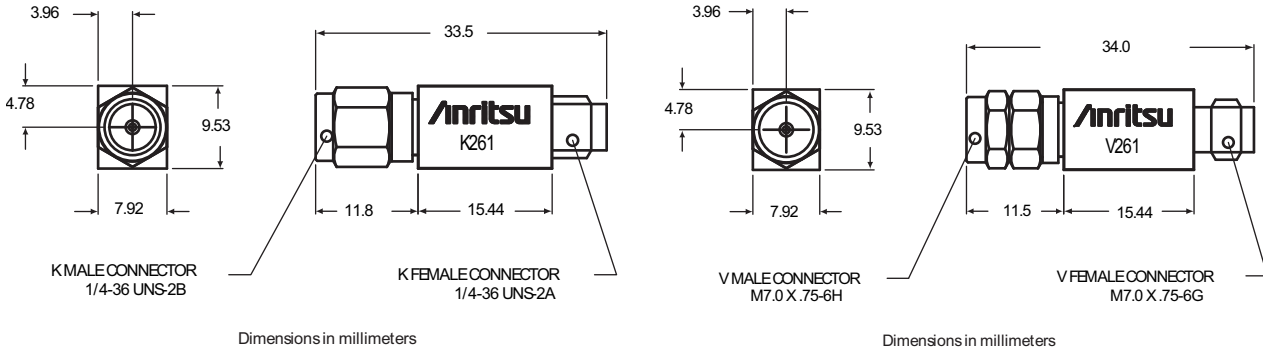


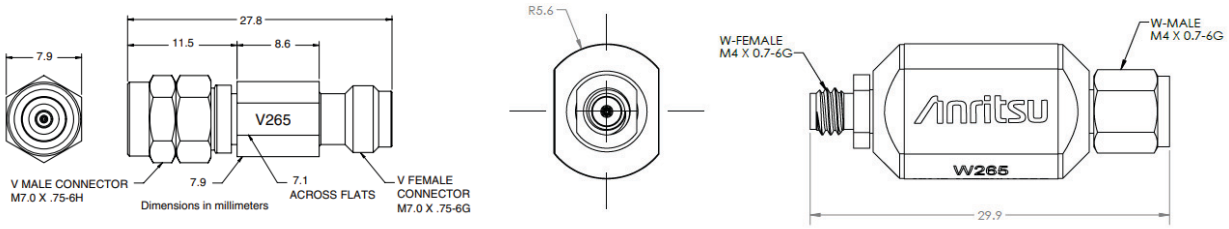
W265 Scale vs Time (ns) PAM4 Eye Diagram with 60 GBPS Rate[a]

a. PAM4 plot created with .s2p simulation using VectorStar eye diagram software

Specifications

Dimensions





Ordering Information

W265	Precision Ultra Wide DC Block, 50 kHz to 110 GHz, W1(m) input, W1(f) output
V265	Precision Ultra Wide DC Block, 50 kHz to 65 GHz, V(m) input, V(f) output
V261	Ultra Wide DC Block, 50 kHz to 65 GHz, V(m) input, V(f) output
K261	Ultra Wide DC Block, 10 kHz to 40 GHz, K(m) input, K(f) output, SMC(m) bias

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• United States
Anritsu Americas Sales Company
450 Century Parkway, Suite 190,
Allen, TX 75013, U.S.A.
Phone: +1-800-Anritsu (1-800-267-4878)

• Canada
Anritsu Electronics Ltd.
700 Silver Seven Road, Suite 120,
Kanata, Ontario K2V 1C3, Canada
Phone: +1-613-591-2003
Fax: +1-613-591-1006

• Brazil
Anritsu Eletronica Ltda.
Praça Amadeu Amaral, 27 - 1 Andar
01327-010 - Bela Vista - Sao Paulo - SP, Brazil
Phone: +55-11-3283-2511
Fax: +55-11-3288-6940

• Mexico
Anritsu Company, S.A. de C.V.
Blvd Miguel de Cervantes Saavedra #169 Piso 1,
Col. Granada, Mexico, Ciudad de Mexico,
11520, MEXICO
Phone: +52-55-4169-7104

• United Kingdom
Anritsu EMEA Ltd.
200 Capability Green,
Luton, Bedfordshire, LU1 3LU, U.K.
Phone: +44-1582-433200
Fax: +44-1582-731303

• France
Anritsu S.A.
12 avenue du Québec, Immeuble Goyave,
91140 VILLEBON SUR YVETTE, France
Phone: +33-1-60-92-15-50

• Germany
Anritsu GmbH
Nemetschek Haus, Konrad-Zuse-Platz 1,
81829 München, Germany
Phone: +49-89-442308-0
Fax: +49-89-442308-55

• Italy
Anritsu S.r.l.
Spaces Eur Arte, Viale dell'Arte 25, 00144 Roma, Italy
Phone: +39-6-509-9711

• Sweden
Anritsu AB
Kistagången 20 B, 2 tr, 164 40 Kista, Sweden
Phone: +46-8-534-707-00

• Finland
Anritsu AB
Technopolis Aviapolis, Teknobulevardi 3-5 (D208.5.),
FI-01530 Vantaa, Finland
Phone: +358-20-741-8100

• Denmark
Anritsu A/S
c/o Regus Winghouse, Ørestads Boulevard 73, 4th floor,
2300 Copenhagen S, Denmark
Phone: +45-7211-2200

• Russia
Anritsu EMEA Ltd.
Representation Office in Russia
Tverskaya str. 16/2, bld. 1, 7th floor,
Moscow 125009, Russia
Phone: +7-495-363-1694
Fax: +7-495-935-8962

• Spain
Anritsu EMEA Ltd.
Representation Office in Spain
Paseo de la Castellana, 141.
Planta 5, Edificio Cuzco IV
28046, Madrid, Spain
Phone: +34-91-572-6761

• Austria
Anritsu EMEA GmbH
Am Belvedere 10, A-1100 Vienna, Austria
Phone: +43-(0)1-717-28-710

• United Arab Emirates
Anritsu EMEA Ltd.
Anritsu A/S
Office No. 164, Building 17, Dubai Internet City
P. O. Box – 501901, Dubai, United Arab Emirates
Phone: +971-4-3758479

• India
Anritsu India Private Limited
6th Floor, Indiqube ETA, No.38/4, Adjacent to EMC2,
Doddanekundi, Outer Ring Road,
Bengaluru – 560048, India
Phone: +91-80-6728-1300
Fax: +91-80-6728-1301

• Singapore
Anritsu Pte. Ltd.
11 Chang Charn Road, #04-01, Shriro House
Singapore 159640
Phone: +65-6282-2400
Fax: +65-6282-2533

• Vietnam
Anritsu Company Limited
16th Floor, Peakview Tower, 36 Hoang Cau Street,
O Cho Dua Ward, Dong Da District, Hanoi, Vietnam
Phone: +84-24-3201-2730

• P.R. China (Shanghai)
Anritsu (China) Co., Ltd.
Room 2701-2705, Tower A, New Caohejing
International Business Center No. 391 Gui Ping Road
Shanghai, 200233, P.R. China
Phone: +86-21-6237-0898
Fax: +86-21-6237-0899

• P.R. China (Hong Kong)
Anritsu Company Ltd.
Unit 1006-7, 10/F., Greenfield Tower, Concordia Plaza,
No. 1 Science Museum Road, Tsim Sha Tsui East,
Kowloon, Hong Kong, P.R. China
Phone: +852-2301-4980
Fax: +852-2301-3545

• Japan
Anritsu Corporation
8-5, Tamura-cho, Atsugi-shi, Kanagawa, 243-0016 Japan
Phone: +81-46-296-6509
Fax: +81-46-225-8352

• South Korea
Anritsu Corporation, Ltd.
5FL, 235 Pangyoyeok-ro, Bundang-gu, Seongnam-si,
Gyeonggi-do 13494, South Korea
Phone: +82-31-696-7750
Fax: +82-31-696-7751

• Australia
Anritsu Pty. Ltd.
Unit 20, 21-35 Ricketts Road,
Mount Waverley, Victoria 3149, Australia
Phone: +61-3-9558-8177
Fax: +61-3-9558-8255

• Taiwan
Anritsu Company Inc.
7F, No. 316, Sec. 1, NeiHu Rd., Taipei 114, Taiwan
Phone: +886-2-8751-1816
Fax: +886-2-8751-1817

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