



A passion for performance.

Circulators and Isolators

High Power Cable Loads


**Terminations
and Connectors**



Aeroflex Nanjing

Products and Capabilities

We are committed to excellent products, performance and service



In today's competitive environment, system designers are facing the tough challenge of developing systems that require high performance, shorter times-to-market, and tremendous cost reductions. At Aeroflex, we use cutting-edge technology combined with our extensive design history, high-power testing knowledge, and manufacturing expertise to provide high performance, high reliability, and innovative solutions to our customers.


Aeroflex Nanjing China concentrates on research and development, manufacturing, test, quality assurance, related RF devices, components and subsystems. We occupy a 22,000-square-foot facility in Nanjing's Jiangning exciting new economic and technology development zone, a state-of-the-art building that is both ISO9001:2000 certified and RoHS compliant.



Aeroflex Nanjing is a vital part of Aeroflex Microelectronic Solutions, a growing technology leader in the worldwide marketplace that stresses innovative solution-minded products. Our customer-focused approach brings flexibility, creativity and cost-effectiveness to our diverse markets

Aeroflex offers advanced technologies, broad capabilities, engineering expertise, manufacturing facilities, and proven product experience. We will happily consult on your high power requirements and can develop and manufacture for you cost-effective products that are delivered right and on time. That's the Aeroflex Nanjing guarantee.

HERE'S WHAT WE CAN DO FOR YOU

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- Design to specification
 - Build to print
 - Build to print with some redesign
 - Standard designs covering multiple frequencies

OUR PRODUCTS FEATURE

- Low VSWR
- Low passive intermodulation
- High isolation

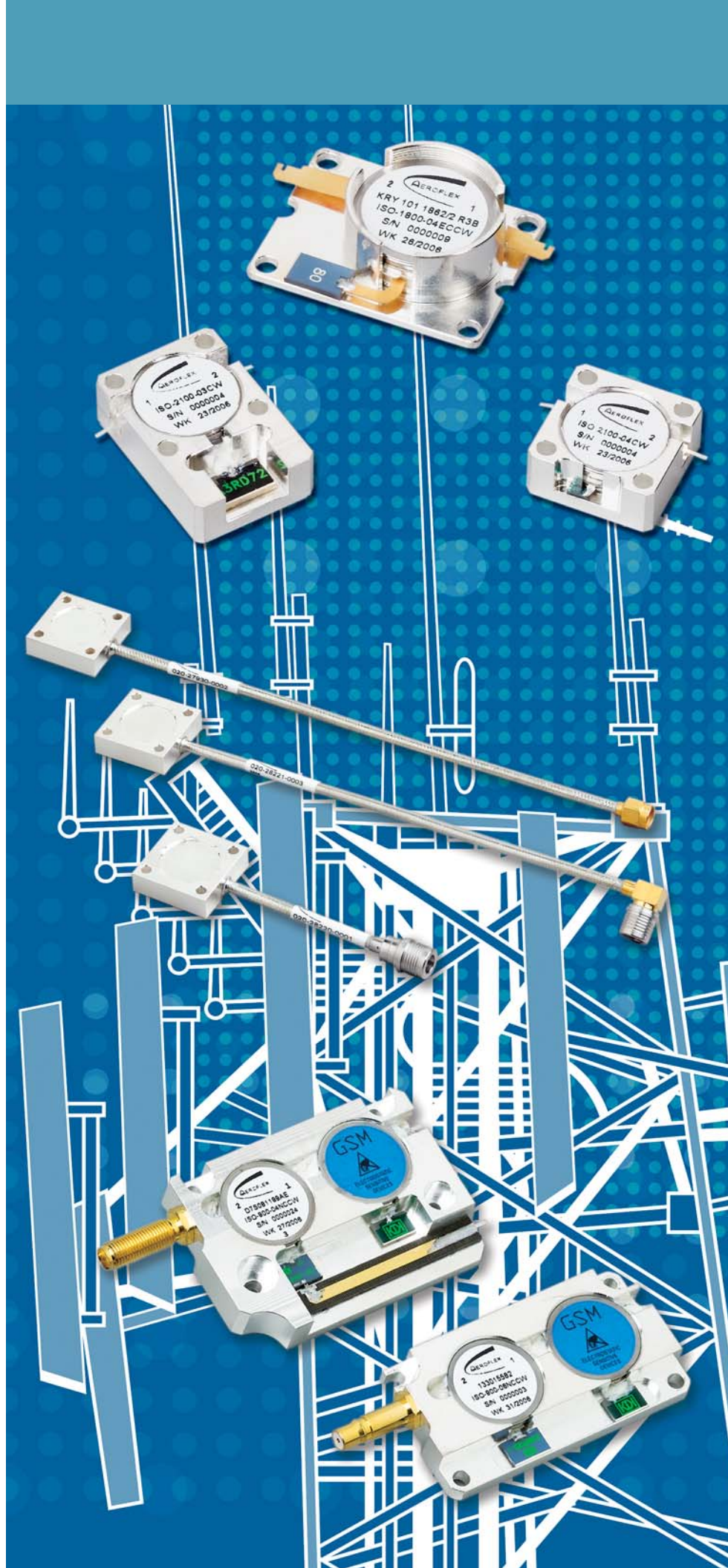
Cable load assemblies feature semi-flexible cables in 0.080 and 0.141 inch diameters, either Beryllium Oxide (BO) or Aluminum Nitride (AlN) resistive elements, and CW power levels from 50 to 250W, with an operating temperature range of -55° to +100°C.

Coaxial circulators protect amplifiers, combining and phase-matching to the amplifiers to produce high power. They withstand a full 200W continuous wave into a short or open circuit and have a frequency range of 335 to 2500MHz.

Coaxial isolators, standard devices that meet common RF requirements, offer short lead times and low cost. Typically optimized at 10MHz bandwidth for maximum isolation and insertion loss.

Single-junction drop-in isolators feature guaranteed specifications and low cost for high-volume applications, accommodating the major cellular applications. Devices are fully tested to handle shock, vibration, thermal shock and moisture, making them suitable for base station and other infrastructure environments. With temperature stability and optional precision test fixture.

Dual-junction drop-in circulators are used in ultra-linear, high-power mobile communications base stations requiring high isolation. We have standard designs covering a variety of frequency bands featuring low insertion loss, excellent isolation and low reverse passive intermodulation.



Aeroflex Nanjing products

Typical features, all RoHS compliant

Single-junction drop-in isolators
(DS series)

Single-junction drop-in isolators
(ISO series)

Dual-junction drop-in isolators
(ISO series)

Cable load assemblies
(TER series)

No beryllium oxide.
No magnetic nickel in any of the components.
House - Stainless steel, steel, or aluminum (plated).
Tab - Brass, BeCu (plated).
Test results supplied with samples.
Good temperature stability.
Precision test fixture available.
Custom products for high volume applications.
Very high isolation.
Low reverse intermodulation.
Typical operating range from -20° to +80°C and storage from -30° to +125°C.

CW power Levels range from 50 to 250 watts.
Can be factory tuned for a VSWR as low as 1.04:1.
Typical operating range -55° to +100°C.

Typical performance chart

Product type	Frequency range MHz	Forward power W	Reverse power W	Attenuation dB	Return loss dB MIN	VSWR MAX	Insertion loss dB dB MAX	Isolation dB MIN	IMD dBC
Single junction drop-in isolators	800~2200	Up to 150	100	0,20,30	26	1.10:1	0.2	26	-80
Dual junction isolators	800~2200	Up to 200	100	0,20,30	26	1.10:1	0.35	50	-80
Std drop-in isolators single junction	800~2200	Up to 150	100	0,20,30	26	1.15:1	0.15	26	-80
Cable loads	DC-3G	Up to 250	n/a	n/a	26	1.10:1	n/a	n/a	n/a

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AEROFLEX
A passion for performance.



Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.