



High reliability custom services

www.infineon.com/hirelservices



Customizable memory, RF and power capabilities for extreme environments

Infineon's high reliability and extreme environment custom services simplify your design process by offering quick-turn solutions. Our worldwide partner network and technology expertise help our customers develop innovative products and accelerate time to market with shorter qualification cycles.

Infineon's IR HiRel subsidiary custom services include:

- **COTS+ extended product qualification and screening:** Infineon's IR HiRel offers up-screening services for select Infineon commercial and automotive power components solutions to meet more stringent requirements such as MIL temperature range qualification and 100% burn-in testing.
- **Die and wafer sales:** Infineon offers select products from its radiation hardened and high reliability memory and power portfolios as qualified bare die and wafer. The die and wafers are tested to the same quality and reliability standards as their packaged equivalents.
- **Longevity programs:** Product life extension and die and wafer bank services are also available for select Infineon COTS, automotive, HiRel, and memory solutions that may be used in high reliability electronic designs in space, avionics, defense, medical, and more.
- **RF foundry services:** Infineon's RF foundry services enable access to our industry leading microwave technology for developing markets and low-volume applications. Our B11HFC microwave process is a state-of-the-art mature technology. Automotive qualified with extended temperature range, it is well-established for high volume production and ideal for applications up to 100GHz.



Screening

Infineon offers a diverse portfolio of high reliability power and memory solutions for aviation, space, defense and other harsh environments. Manufactured in US-based MIL-PRF qualified facilities, our ruggedized power portfolio spans discrete MOSFETs, power ICs, IGBTs. Our portfolio and volatile and non-volatile memories are backed by IR HiRel's decades of engineering experience and expertise in designing for high reliability applications and Infineon's leadership in power technologies.

	Commercial / Industrial	AEC-Q automotive	IR HiRel COTS+ (MIL-temp)	Hermetic
Packaging	Plastic	Plastic	Plastic / die form	Hermetic
Single Controlled Baseline Manufacturing Flow	No	No (multiple factories / test / assembly locations)	Yes (one fab, assembly, test manufacturing flow)	Yes (one fab, assembly, test manufacturing flow)
Bond Wires	AlCu	AlCu or Cu	AlCu or Cu	Cu
Pure Tin	Yes	Yes (Matte-tin)	Yes (Matte-tin)	No
Typical Temperature Range	-40°C to +85°C	-40°C to +125°C	-55°C to +125°C	-55°C to +125°C
Qualification / Process Monitors	No	AEC-Q	Above AEC-Q (e.g. JESD47, 2k TC, HTSL), Single-lot qual	JANTX, JANTXV
Life Test Per Wafer Lot	No	No	No	No
Lot-to-lot variability	Yes: wafer and package	Yes: wafer and package	Wafer bank: no lot-to-lot variability	Wafer lot, assembly lot
Traceability	Wafer lot	Wafer lot	Wafer lot; assembly lot	Wafer lot; assembly lot
Overall screening level	Industrial products designed and tested for commercial applications	Qualified to AEC-Q; Global assembly and test	– Qualified to MIL-temp -55°C to +125°C – Additional screening options – Redundant wafer storage – Americas-based package assembly & test	



Where to Buy

Infineon distribution partners and sales offices:

www.infineon.com/WhereToBuy

Service Hotline

Infineon offers its toll-free **0800/4001** service hotline as one central number, available 24/7 in English and German.

Germany	0800 951 951 951 (German/English)
India	000 800 4402 951 (English)
USA	1-866 951 9519 (English/German)
Other countries	00* 800 951 951 951 (English/German)
Direct access	+49 89 234-0 (interconnection fee, German/English)

* Please note: Some countries may require you to dial a code other than "00" to access this international number, please visit www.infineon.com/service for your country!

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Additional information

For further information on technologies, our products, the application of our products, delivery terms and conditions and/or prices, please contact your nearest Infineon Technologies office (www.infineon.com).

Warnings

Due to technical requirements, our products may contain dangerous substances. For information on the types in question, please contact your nearest Infineon Technologies office.

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