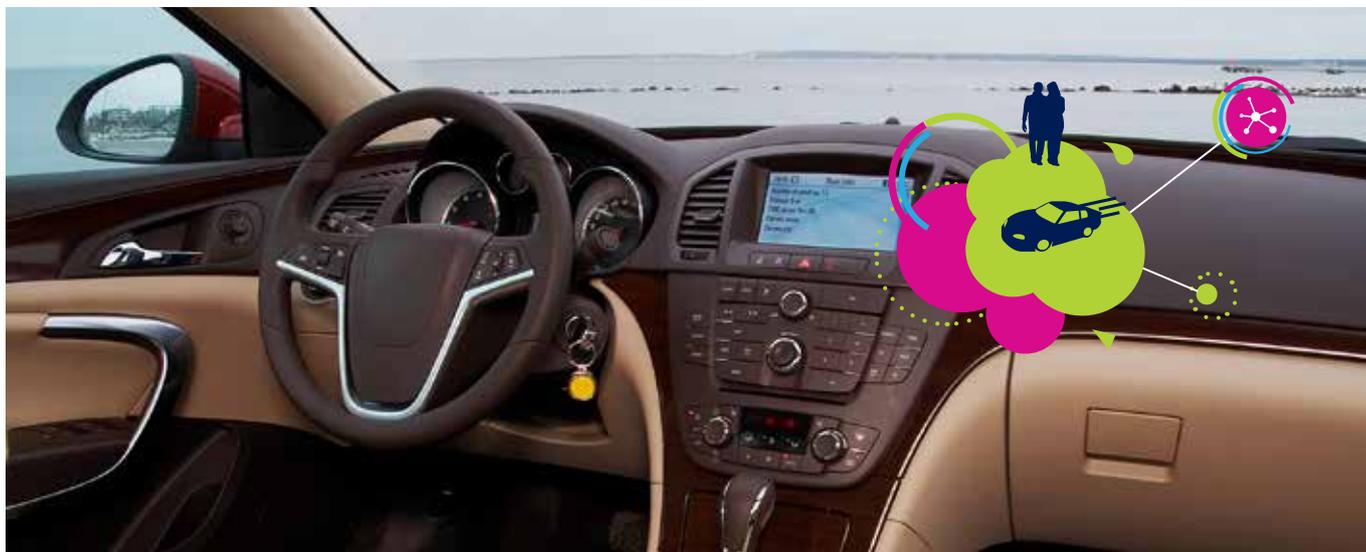


BroadR-Reach® integrated Low pass filter and ESD protection



OPEN Alliance -compliant automotive-grade integrated low-pass filter and ESD protection for BroadR-Reach® interfaces

The EMIF02-02OABRY is an AEC-Q101-qualified ASIP integrating a dual-line EMI filter and dual-line high-speed ESD protection.

While previous filtering solutions were 30 mm², the EMIF02-02OABRY supports the same functions in only 9 mm².

With support for Automated Optical Inspection thanks to its wettable flanks, this highly integrated solution offers features such as a return loss of -20 dB up to 60 MHz, 1% component matching and 15 kV robustness over a wide temperature range (-40 to 125 °C).

KEY APPLICATION

- Advanced Driver Assistance System (rear view camera, bird's eye view vision, etc.)
- Infotainment (in-seat multimedia screen, central display, cameras, etc.)
- Industrial applications (factory automation)

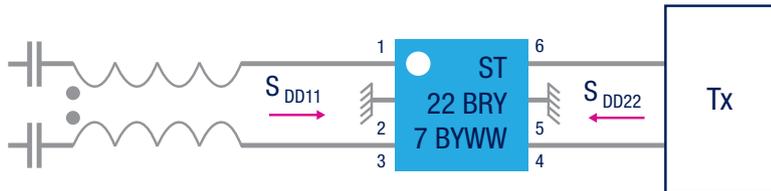
KEY FEATURES

- AEC-Q101 compliant
- Dual-line device
- ISO 10605 compliant: 15 kV (contact discharge)
- Attenuation profile compliant with OPEN Alliance requirements from -40 to 125 °C
- Return loss at 60 MHz: -20 dB
- Smallest solution on the market in a 3 x 3 mm wettable flank QFN package

ELECTRICAL PARAMETERS

Parameter	Conditions	Value	Unit
V_{PP}	ISO 10605 (330 Ω / 330 pF) External pins (pins 1 and 3)	15	kV
S_{DD11} & S_{DD22}	from 10 MHz to 60 MHz, $T_j = -40^\circ\text{C}$ to 125°C	-20	dB
S_{DC21} & S_{CD21}	from 10 MHz to 1 GHz, $T_j = -40^\circ\text{C}$ to 125°C	-55	dB

WIRING

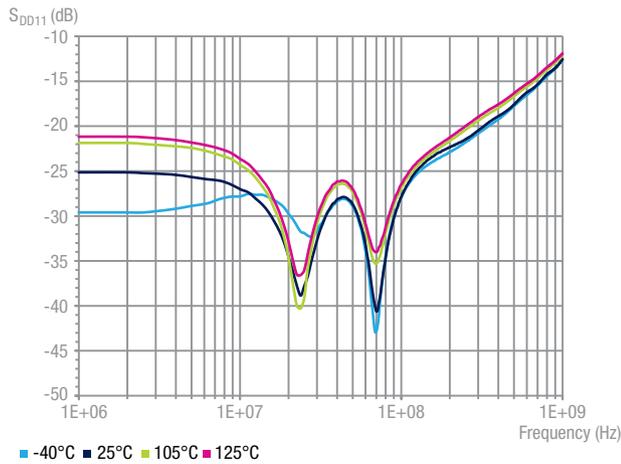


PACKAGE DRAWING

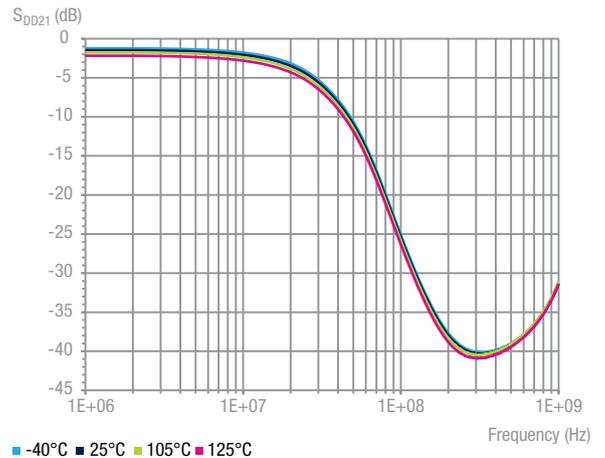


6-lead QFN
3 x 3 x 1 mm
1.1 μm pitch

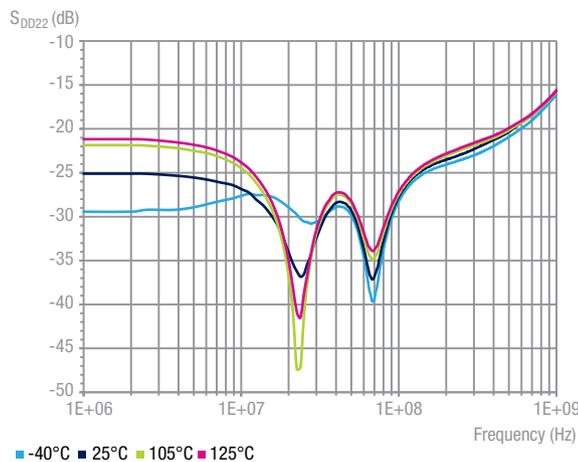
S_{DD11} VERSUS TEMPERATURE



S_{DD21} VERSUS TEMPERATURE



S_{DD22} VERSUS TEMPERATURE



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