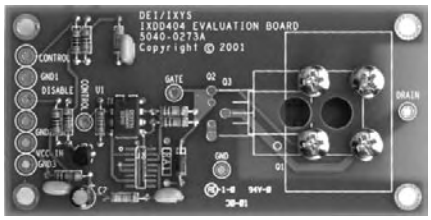
Gate Drive Evaluation Boards

MOSFET/IGBT Gate Drive Modules/Gate Drive IC Evaluation Boards

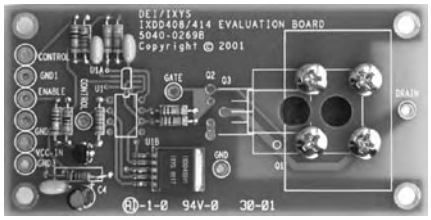
The EV-Series MOSFET Gate Drive Modules are general purpose gate drive circuits designed to drive the DE-Series RF POWER MOSFETs, as well as industry-standard MOSFETs and IGBTs. Designed using IXYS/Colorado gate drive ICs, they serve as a system development tool for the design engineer, and as a convenient platform for the evaluation of the DE-Series RF MOSFET transistors. The EVDD415 and EVIC420 are designed to drive DE-Series RF MOSFETs. The EVDI402, EVDD404, EVDD409, EVDI409 and EVDD414 gate drive modules are designed to drive MOSFETs or IGBTs in various package types, including TO-220, TO-247, TO-264 or SOT-227 packages.

The evaluation board design allows the MOSFET or IGBT to be attached to a heat sink, and in so doing the board assembly can be used as a ground referenced, low side power switch for both single-ended and push-pull configurations. They may be used as pulse width agile, high power switching modules in pulse generators, RF generators, pulsed laser diode drivers and other high voltage, high speed applications.

By utilizing design techniques developed by DEI, the EVDD 415 and EVIC 420 gate drive modules can drive DE-Series MOSFET transistors at frequencies up to 45 MHz, provide continuously variable output pulse widths from ~5 ns to DC, and rise times of <3 ns (actual performance is dependent upon the specific gate drive module and the MOSFET device used).



EVDD404 with IXDD404PI *

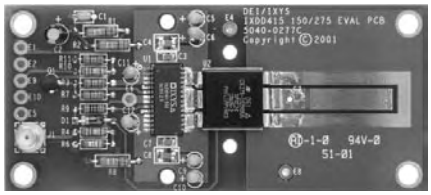


EVDD409 with IXDD409YI *

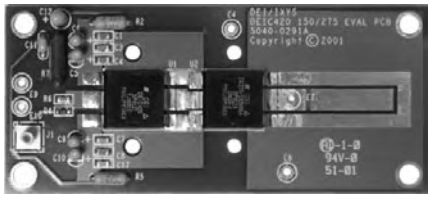
Gate Drive Module / Evaluation Board Selection Guide

➢ Gate Drive Module New	Installed Device	Connectable Package *
EVDD 430CI	**IXDD 430CI**	TO-247, TO-268, SOT-227
EVDD 430MCI	**IXDD 430MCI**	TO-247, TO-268, SOT-227
EVDD 430YI	**IXDD 430YI**	TO-247, TO-268, SOT-227
EVDD 430MYI	**IXDD 430MYI**	TO-247, TO-268, SOT-227
EVDI 430CI	**IXDI 430CI**	TO-247, TO-268, SOT-227
EVDI 430MCI	**IXDI 430MCI**	TO-247, TO-268, SOT-227
EVDI 430YI	**IXDI 430YI**	TO-247, TO-268, SOT-227
EVDI 430MYI	**IXDI 430MYI**	TO-247, TO-268, SOT-227
EVDN 430CI	**IXDN 430CI**	TO-247, TO-268, SOT-227
EVDN 430MCI	**IXDN 430MCI**	TO-247, TO-268, SOT-227
EVDN 430YI	**IXDN 430YI**	TO-247, TO-268, SOT-227
EVDN 430MYI	**IXDN 430MYI**	TO-247, TO-268, SOT-227
EVDS 430SI	**IXDS 430SI**	TO-247, TO-268, SOT-227
EVBD 4400	**IXBD 4400 Chip Set**	TO-247, TO-264
EVDI 402	**IXDI 402PI**	TO-220, TO-247, TO-264, SOT-227
EVD N402	**IXDN 402PI**	TO-220, TO-247, TO-264, SOT-227
EVDD 404	**IXDD 404PI**	TO-220, TO-247, TO-264, SOT-227
EVDI 404	**IXDI 404PI**	TO-220, TO-247, TO-264, SOT-227
EVDN 404	**IXDN 404PI**	TO-220, TO-247, TO-264, SOT-227
EVDI 409	**IXDI 409YI**	TO-220, TO-247, TO-264, SOT-227
EVDN 409	**IXDN 409YI**	TO-220, TO-247, TO-264, SOT-227
EVDD 414	**IXDD 414YI**	TO-220, TO-247, TO-264, SOT-227
EVDI 414	**IXDI 414YI**	TO-220, TO-247, TO-264, SOT-227
EVDN 414	**IXDN 414YI**	TO-220, TO-247, TO-264, SOT-227
EVDD 415	**IXDD 415SI**	DEI DE-150, DEI DE-275
EVIC 420A	**DEIC 420**	DEI DE-150, DEI DE-275
EVIC 420B	**DEIC 420**	DEI DE-375, DEI DE-475
EV 6R11S3	**IX 6R11S3**	TO-247,TO-264
EV 6R11S7	**IX 6R11S7**	TO-247,TO-264

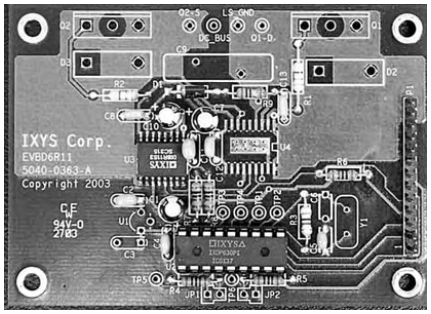
* Connectable Power MOSFET or IGBT is not included



EVDD415 with IXDD415SI *



EVIC420A with DEIC420 *



EV6R11 with IX6R11S3 *