KEK M2 RF Processing History

- Kly Out (MW)
- Acc In (MW)
- Envelope

85 MV/m
Comparing Fwd-Bkwd E-Fields
In M2 High Power Tests

![Graph comparing Fwd-Bkwd E-Fields](image)

- Eacc (fwd 160 MW)
- Ep (fwd 160 MW)
- Eacc (bkwd 85 MW)
- Ep (bkwd 85 MW)

Cells Downstream from Power Flow

E-Field (MV/m)
M2 RF Backwards Power

**MW**

**Peak**

Input Power Required to Reach 100 MV/m

Cell Number

Peak E-Field in Cell 1 (MV/m)

- 85 MW
- 115 MV/m
- 130 MV/m
- 105 MW
"Output" Coupler

DAMAGE ONLY IN COUPLER CELL

Pitting
M2 Accumulated Phase Advance Error

![Graph showing Accumulated Phase Error](image-url)
Last quarter of structure (output end) after high-power processing.

First quarter of structure (output end) after running backwards.

Tuned at 1.420 GHz

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