BALANCED MIXERS
BMC-28 - 26.5-40GHz
BMC-19 - 40-60GHz
BMC-15 - 50-75GHz
BMC-12 - 60-90GHz
BMC-10 - 75-110GHz
BMC-08 - 90-140GHz
BMC-06 - 110-170GHz
BMC-05 - 140-220GHz
Description

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Features

- Planar GaAs diodes
- Rugged compact design
- High reliability
- Low noise figure conversion loss
- Broad bandwidth
- Biased designs available

Applications

- Communications
- Radiometry
- Radar
- Laboratory Test Systems

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3. RF/LO/IF VSWR typically <2.5:1.
4. BMC-XXB model uses bias to allow LO drive levels 0 to +3dBm.
5. LO level +13dBm as standard
6. Consult factory with LO, RF and IF range for performance specifications
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Datasheet

Balanced Mixers
75 - 110 GHz – BMC-10 & BMC-10B

Description

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- Broad bandwidth
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Applications

- Communications
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- Radar
- Laboratory Test Systems

Unit 1 Airport East Business
Park, Farmers Cross, Cork.
Telephone: +353 21 4849170
Fax: +353 21 4849192

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Typical Plots:

Conversion Loss v RF Frequency LO = 95GHz

![Conversion Loss v RF Frequency LO = 95GHz](image)

**Figure 1** Conversion Loss Full Band (75 – 110 GHz) LO = 95 GHz BMC-10 (Unbiased)

BMC 10B Conversion Loss

![BMC 10B Conversion Loss](image)

**Figure 2** Conversion Loss Full Band (75 – 110 GHz) LO = 92.5 GHz BMC-10B (Biased)
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### Specification BMC-15-000X

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### Specification BMC-15B-000X

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<td><strong>LO Power</strong></td>
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Typical Plots:

**BMC 15 Conversion Loss Characteristic Date 29-04-09**

**Figure 1 Conversion Loss (58 – 62 GHz) LO = 60 GHz BMC-15 (Unbiased)**

**Figure 2 Conversion Loss Full Band (50 – 75 GHz) LO swept BMC-15B (Biased)**
Figure 3 Conversion Loss Full Band (50 – 75 GHz) LO = 60 GHz BMC-15B (Biased)

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