



DESCRIPTION

AMCOM's AM154510XD-P4 is a passive double balanced mixer with 1.5 to 4.5GHz at RF/LO port and DC to 1.5GHz at IF port. The mixer operates with LO drive level +13dBm.



FEATURES

- LO/RF: 1.5–4.5GHz
- IF: DC–1.5GHz
- LO Level: +13dBm
- Conversion Loss: 8.5dB typ.
- RF Input: Up to +10dBm
- Input IP3: +19dBm
- SMA Female All Ports

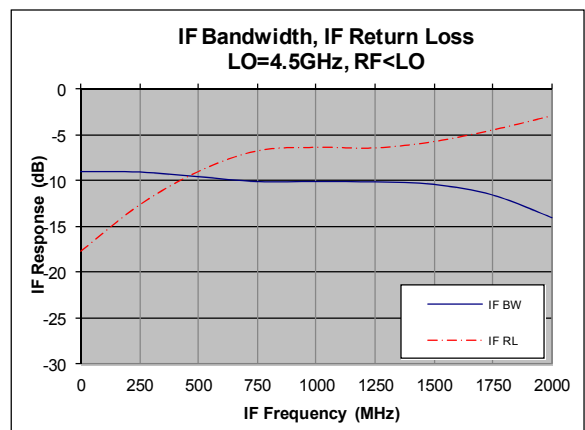
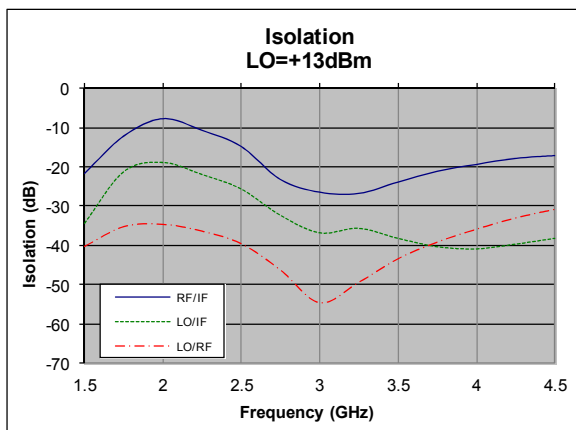
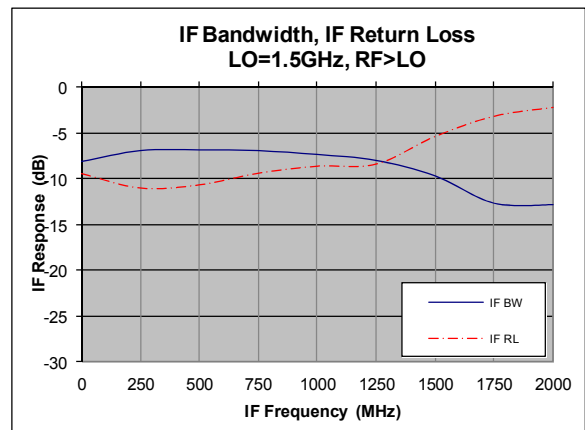
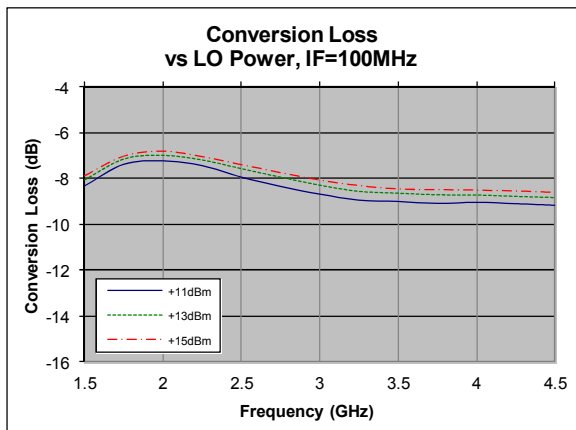
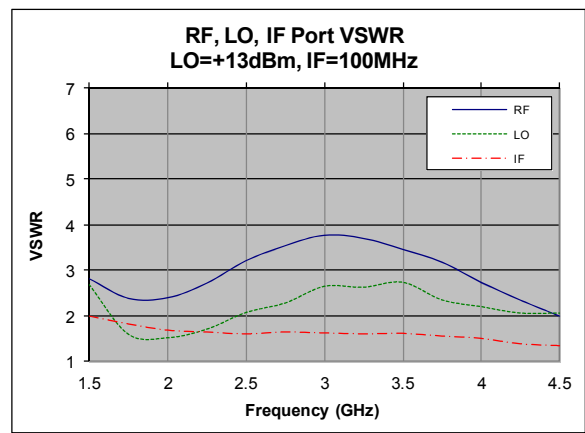
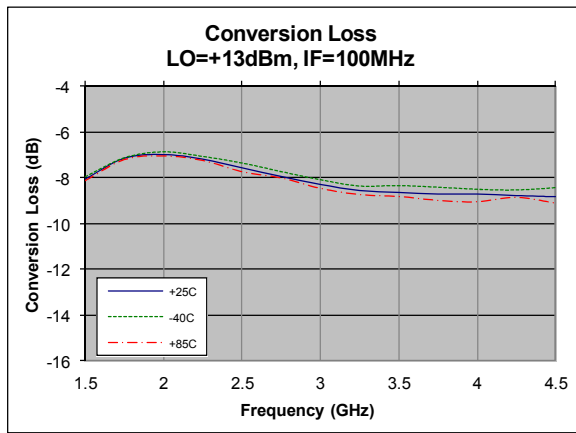
APPLICATIONS

- Telecom Infrastructure
- Military & Aerospace
- VSAT
- Test & Instrumentation
- Radar
- Communication

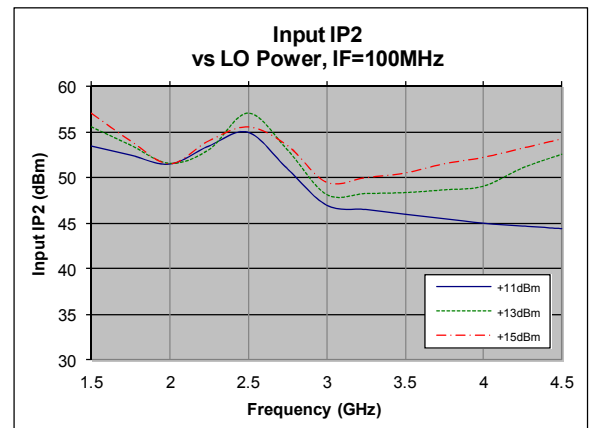
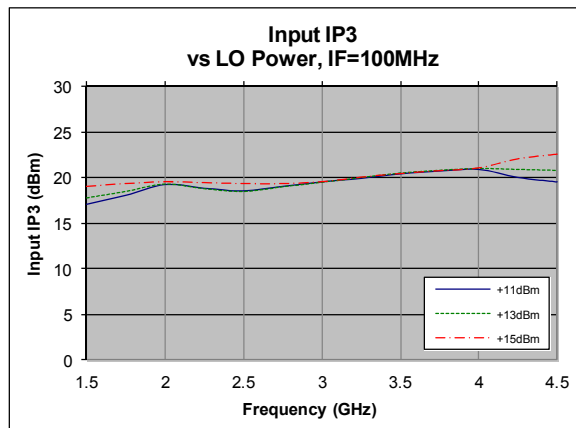
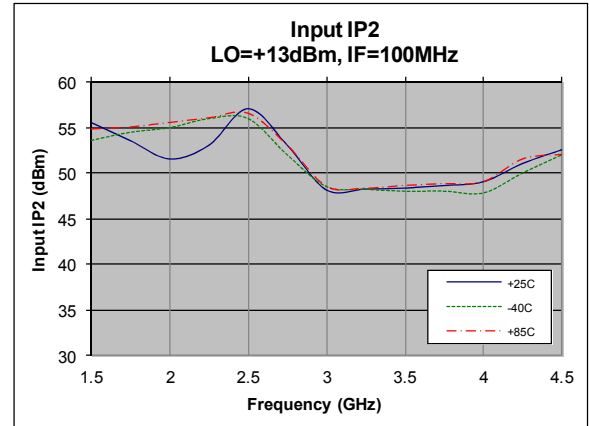
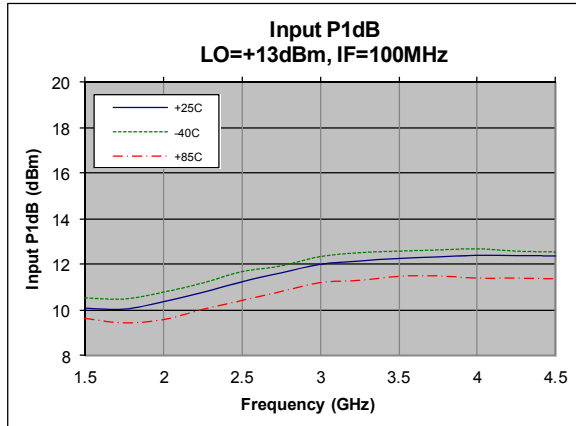
Electrical Specifications @ +25 °C, IF=100MHz, LO=+13dBm, 50 Ω

| Parameter | Unit | Minimum | Typical | Maximum |
|---------------------------|------|---------|---------|---------|
| Frequency Range LO/RF | GHz | 1.5 | | 4.5 |
| IF | GHz | DC | | 1.5 |
| Conversion Loss | dB | | 8.5 | 10 |
| LO-RF Isolation | dB | 29 | 40 | |
| LO-IF Isolation | dB | 27 | 35 | |
| RF-IF Isolation | dB | 5 | 11 | |
| RF Input P _{1dB} | dBm | +7 | +10 | |
| Input IP3 | dBm | +16 | +19 | |
| Input IP2 | dBm | | +48 | |

Typical Performance



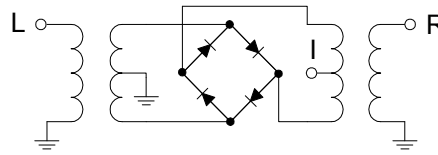
Typical Performance



Absolute Maximum Ratings

| Parameter | Absolute Maximum |
|-----------------------|-------------------|
| RF IF Power | +13dBm |
| LO Driver | +27dBm |
| Operating Temperature | -40 °C to +85 °C |
| Storage Temperature | -65 °C to +150 °C |

Schematic



Outline

