

HAYSTACK OBSERVATORY

WESTFORD, MASSACHUSETTS 01886

10 September 1990

Telephone: 508-692-4764  
Fax: 617-981-0590

To: VLBA Data Acquisition Group  
From: Alan E.E. Rogers  
Subject: Replacement for MA-46577B varactor in BBC oscillator

The M/A-Com MA-46577B is no longer available. It can be replaced by the MA46484-30 which has similar specifications. Both are GaAs constant gamma hyperabrupt varactors with typical parameters:

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<u>Part #</u>	<u>CT-2/CT-20</u>	<u>CT-4</u>	<u>Min. Q</u>	<u>Gamma</u>
MA-46577B-30	9.3	8 pf	1000	1.25
MA-46484-30	9.3	8 pf	1500	1.25

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In the event of further changes in the future, it is important to try and match the above. These parameters are important for good performance of the BBC oscillator over the full 500-1000 MHz range.