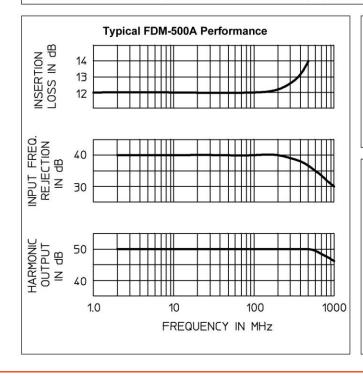
FD Series - Frequency Doublers

TECHNICAL FEATURE

FEATURES

- 5 to 3000 MHz
- Minimum Spurious Output
- Flatpack, TO-5 or SMA Connectors

PRINCIPAL SPECIFICATIONS									
Model Number	Input Freq., MHz	Operating Input Frequency, MHz		ersion s, dB, Max.	*Typical F F ₁ dB	larmon F ₃ dB	ic Output F4 dB	RF Input Range (Nom.)	Package Style
FDF-4C-750	75 - 1500	75 - 300 300 - 700 700 - 1500	11 11 11	14 14 14	- 50 - 40 - 35	- 50 - 45 - 40		+7 to 16 (13 dBm)	Flat
FDF-500A	5 - 500	5 - 100 100 - 300 300 - 500	12 12 15	16 15 17	- 40 - 30 - 30	- 45 - 40 - 40	- 25 - 27 - 30	+5 to 18 (13 dBm)	Flat
FDF-4A-1500	25 - 3000	25 - 600 600 - 2500 2500 - 3000	12 12 13	14 13 15.5	-27 -18 -15	-30 -30 -20		+7 to 16 (13 dBm)	Flat
FDM-500A	5 - 500	5 - 100 100 - 300 300 - 500	12 12 15	16 15 17	- 40 - 35 - 30	- 45 - 40 - 40	- 25 - 27 - 30	+5 to 18 (13 dBm)	SMA
FDT-500A	5 - 500	5 - 100 100 - 300 300 - 500	10 10 11	13 13 15	- 40 - 35 - 30	- 45 - 40 - 40	- 25 - 27 - 30	+2 to 13 (9 dBm)	TO-5
[†] Conversion Loss measured at nominal Input Power *Typical Harmonic Level is referenced to RF Input Power All specifications measured at nominal input power and referenced to input power.									



GENERAL SPECIFICATIONS

	1 / / / / / / / / / / / / / / / / / / /				
Impedance:	$50~\Omega$ nom.				
Weight, FDM-500A	0.65 oz. (2.5 g)				
Weight, All others:	0.09 oz. (18 g)				
Operating Temperature:	– 55° to +85°C				

General Notes:

- 1. Merrimac Frequency Doublers cover the frequency range of 5 to 3000 MHz using lumped element circuits for broad bandwidth and excellent rejection of fundamental and third harmonic energy. These units may also act as quadruplers with additional conversion loss.
- 2. Merrimac Frequency Doublers comply with the relevant sections of MIL-M-28837 and may be supplied screened for compliance with additional specifications for military and space specifications requiring the highest reliability.

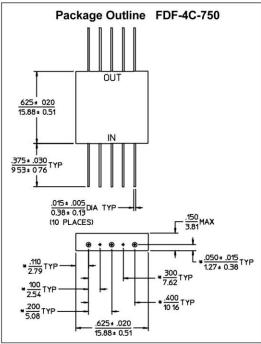
3Feb96

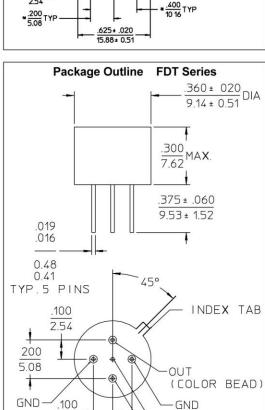


www.craneae.com/mw

FD SERIES - FREQUENCY DOUBLERS

PACKAGE OUTLINE

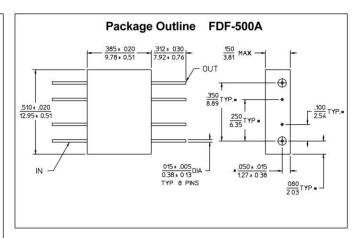


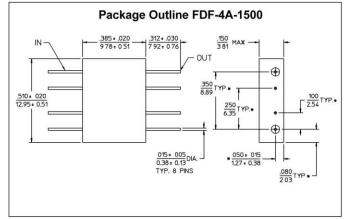


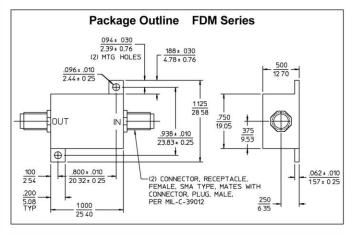
2.54

200

5.08







NOTES:

- 1. Tolerance on 3 place decimals $\pm .010(.25)$ except as noted.
- 2. Dimensions in inches over millimeters.
- Dimensions marked with * apply only at body.
- 4. All unmarked pins are case ground.



23Feb96

GROUND PIN