DESCRIPTION

MODEL NUMBER FD-1G-500M-55-SFF IS A FREQUENCY DISCRIMINATOR THAT OPERATES AT A CENTER FREQUENCY OF 1 GHz. IT HAS A PEAK TO PEAK BANDWIDTH OF 500 MHz WITH AN INPUT POWER DYNAMIC RANGE OF -10 TO 0 dBm, THE SENSITIVITY INTO A 93 OHM LOAD IS 10 mV/MHz.

SPECIFICATIONS

- CENTER FREQUENCY: .......... 1 GHz
- PEAK TO PEAK BANDWIDTH: 500 MHz MIN
- SENSITIVITY: ................. 10 mV / MHz TYPICAL INTO 93 OHMS
- ACCURACY: .................. ±10 MHz @ +25°C Typ.  
                         ±25 MHz @ 0°C TO +50°C Typ.
- OFFSET ADJUST: ............ ±100 mV MIN.
- INPUT DYNAMIC RANGE: ....... -10 TO 0 dBm MIN.
- RISE TIME: ................. 10 ns TYPICAL
- INPUT VSWR: ............... 2.0 : 1 MAX.
- DC POWER SUPPLY: 
  +5V: ......................... +5V @ 25 mA TYPICAL (NO LOAD) 
  -5V: ......................... -5V @ 70 mA TYPICAL (NO LOAD)
- SIZE: ......................... 2.5" x 1.0" x 0.4"
- WEIGHT: .................... 28 GRAMS TYPICAL
- FINISH: ....................... BLUE EPOXY POLIMIDE COATING 
  IAW MIL-C-22759, TYPE I OVER 
  EPOXY POLIMIDE PRIMER IAW 
  MIL-P-23377, TYPE I, CLASS 1 OR 3.

MECHANICAL OUTLINE

- #4-40 TAPPED THRU,  
  C‘BORE ø0.156 X 0.062 DEEP,  
  (BOTH SIDES), 4 PLACES
- GROUND LUG
- FEEDTHRU,  
  3 PLACES
- SMA (F) CONNECTOR,  
  2 PLACES

ENVIRONMENTAL RATINGS

- TEMPERATURE: .............. -45°C TO +85°C (OPERATING)  
                         -55°C TO +100°C (STORAGE)
- HUMIDITY: ..................... MIL-STD-202F, METHOD 103B COND. B
- SHOCK: ......................... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: ................. MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: ..................... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: ......... MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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ISO 9001 CERTIFIED

PRODUCT FEATURE
FD-1G-500M-55-SFF

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
XXX ±0.020
X.XXX ±0.010
X.XXXX ±0.010
WEIGHT: 2.75 oz.