

- SPACE QUALIFIED
- 5 - 500 MHz DIRECTIONAL COUPLER
- FORWARD AND REVERSE COUPLING



**TECHNICAL DESCRIPTION / APPLICATION**

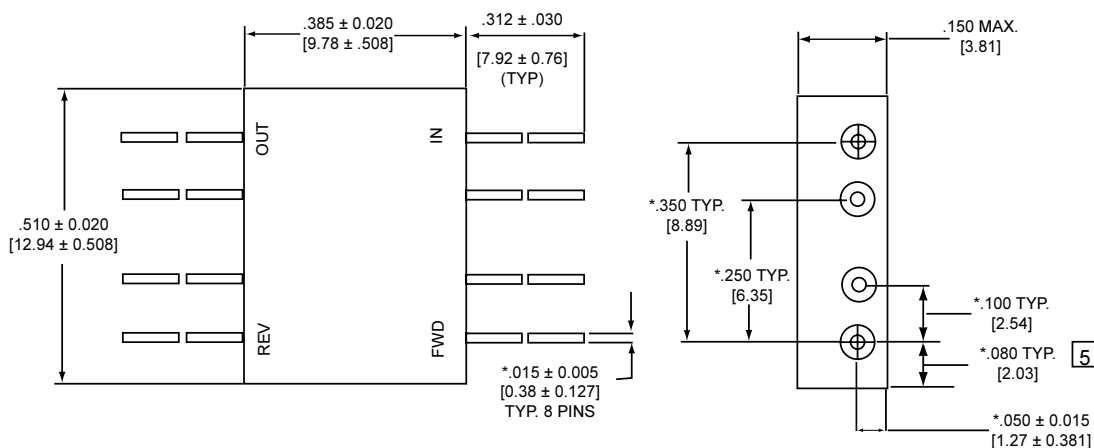
SERIES 03

The CRF-10A-250 SQ Directional Coupler covers 5 - 500 MHz with a special lumped element design to reduce size, while maintaining high performance. Parts, materials and processes are in accordance with Merrimac document CENG-0001, "Standard Design Requirements for Space Qualified Devices".

**GENERAL SPECIFICATIONS**

MODEL NUMBER	FREQUENCY RANGE MHz	COUPLING dB	INSERTION LOSS dB MAX.	DIRECTIVITY dB MIN.	VSWR MAX./TYP.
CRF-10A-250 SQ	5 - 500	10 ± 1	1.3	20	1.5:1 / 1.3:1
<b>FREQUENCY SENSITIVITY dB MAX.</b>		<b>CW POWER RATING MAIN LINE MAX.</b>		<b>WEIGHT MAX.</b>	
± 0.5		1 WATT		2.8 g	

**PACKAGE OUTLINE**



NOTES:

1. TOLERANCE ON 3 PLACE DECIMALS ± .010 [.25mm] EXCEPT AS NOTED.
2. MAX. IS LARGEST DIMENSION ALLOWED.
3. DIMENSIONS = INCHES [mm]
4. METRIC EQUIVALENTS ARE TO THE NEAREST .01 mm.
5. ALL LEADS TO BE WITHIN ±.010 [.25mm] OF EACH OTHER AT THIS DIMENSION.
6. DIMENSIONS MARKED WITH \* APPLY ONLY AT BODY.
7. ALL UNMARKED PINS ARE CASE GROUND.



Directional  
Couplers

I&Q's/  
Mixers

Power  
Dividers

Quads/  
Hybrid Junction