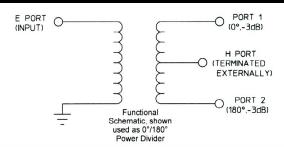
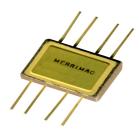




5 to 1000 MHz / High Isolation / Low Insertion / Hi-Rel / Hermetic Pkg Symmetrical And Assymetrical

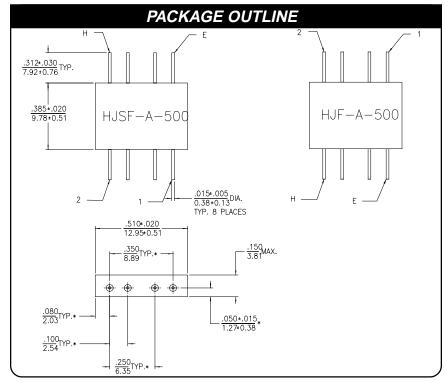




TECHNICAL DESCRIPTION / APPLICATION

- 1. The HJF-A Series of assymetrical hybrid junctions uses lumped element circuits to provide very compact and light weight solutions to a variety of signal processing functions. Among these are applications in beamformers, quadrapole networks and hybrid added amplifiers.
- a) **Power division with phase shift:** Signals applied to the delta (Δ) port, or E-arm, will divide equally between output ports 1 and 2 (colinear arms) and be 180 out of phase.
- b) **Power division with no phase shift:** Signals applied to the sum (Σ) port, or H-arm, will divide equally between output ports 1 and 2 (colinear arms) and be in phase.
- 2. The **HJSF-A Series**, is fully symmetrical, i.e. insertion phase of E-1 equals that of H-1 allowing its use in beamforming applications, or any application requiring vector addition.
- 3. All units comply with MIL-P-23971 and can be supplied screened for compliance with additional specifications for military and aerospace applications requiring the highest reliability.

PRINCIPAL SPECIFICATIONS							
	Frequency	Isolation,	Insertion	Phase	Amplitude		
Model	Range,	E-H Ports,	Loss, dB	Balance,	Balance, dB,	VSWR,	
Number	MHz	dB, Min	Max.	Max.	Max.	Max.	Туре
HJSF-A-500	5-1000	25	1.7	±4°	0.4	1.4:1	Symmetrical
HJF-A-500	5-1000	25	1.7	±4°	0.4	1.4:1	Assymetrical



GENERAL SPECIFICATIONS											
Coi	upling:		-3dB nom.								
lmp	edance:		50 Ω nom.								
CW	/ Input:		1 Watt max.								
We	ight:		0.1 oz / 2.8g, max.								
Оре	erating Tem	perature:	-55 to +85 C								
	E	Н	1	2							
	lsol.	ln	0° ref.	0°							
	ln	lsol.	0°	-180°							
					1						

