

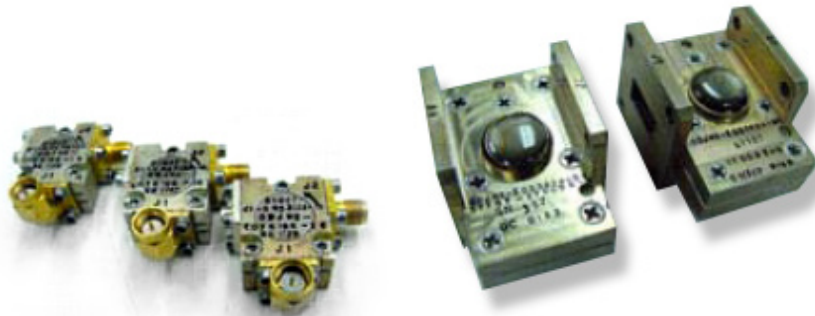
# SPACE HERITAGE

*ferrite*

*“Military &  
Commercial  
Space  
Applications”*

With Renaissance Electronics' acquisition of P&H Labs and MCCI Wireless, a significant portion of our broad Ferrite Products line has been qualified for both Military and Commercial Space applications. P&H Labs products have been an integral part of over 50 satellite and deep-space mission payloads, many of which have been in operational orbit for 8 to 10 years. Renaissance Electronics has been able to capture and retain the heritage processes and documentation systems needed to support S-Level and Hi-Rel requirements. Soldering operations and inspections of our Hi-Rel Space components are in full compliance with NASA specification NHB-5300.4 and all of our Hi-Rel assemblers and inspectors are regularly tested and recertified.

Renaissance Electronics' (through P&H Labs) extensive Ferrite Device Space Program heritage includes many well-known programs such as Echostar, Astra 1K, Globalstar, PanAmSat, Telstar-8, WildBlue, IP Star, DirectTV-7, GOES, SBIRS, TDRSS, Arabsat, Turksat, Intelsat VII/VIII, Ausat, Insat, Westar, and Intelsar VII.



## *Coaxial Models*

Frequency (GHz)	Qualified Designs	Frequency (GHz)	Qualified Designs
L-Band:		C-Band:	
1.670 - 1.695	3	3.70 - 4.2	3
1.677 - 1.694	1	3.90 - 4.2	1
1.7 - 1.8	1	5.00 - 5.3	7
S-Band:		5.70 - 6.45	1
2.75 - 2.85	1	5.75 - 6.725	1
3.40 - 3.55	1	5.75 - 6.75	1
3.40 - 3.70	1	5.80 - 6.65	1
3.40 - 3.85	2	7.20 - 7.5	2
3.46 - 3.71	4	7.20 - 7.8	1
3.62 - 4.20	2	7.20 - 8.9	1
3.65 - 3.95	1	7.50 - 7.8	1
3.70 - 3.95	4		



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## *Coaxial Models (continued)*

Frequency (GHz)	Qualified Designs	Frequency (GHz)	Qualified Designs
X-Band:		Ku-Band:	
8.4 - 8.9	1	12.50 - 12.75	1
9.4 - 10.3	1	12.75 - 13.25	2
10.20 - 10.95	1	13.75 - 14.50	3
10.45 - 11.2	2	14.00 - 14.50	1
10.55 - 11.2	1	13.75 - 14.00	1
10.70 - 11.45	5	14.00 - 14.50	1
10.70 - 11.7	4	17.30 - 17.80	1
10.90 - 12.8	2		
10.95 - 11.70	2		
11.40 - 11.75	1		
11.40 - 12.2	5		
11.45 - 12.75	1		
11.70 - 12.2	1		
11.70 - 12.5	5		
11.70 - 12.7	4		
11.70 - 12.75	4		
12.20 - 12.75	6		
12.20 - 12.9	5		

## *Waveguide Models*

Frequency (GHz)	Qualified Designs	Frequency (GHz)	Qualified Designs
Ku-Band:		X-Band:	
12.50 - 13.50	2	10.35 - 10.70	1
12.75 - 13.25	1	10.95 - 11.20	3
12.75 - 14.00	1	11.20 - 11.45	4
13.75 - 14.50	3	11.45 - 11.70	1
14.00 - 14.50	2		
17.30 - 17.80	1	Ka-Band:	
17.30 - 17.85	1	28.00 - 30.25	1
K-Band:		28.50 - 30.25	1
19.00 - 21.00	3	29.25 - 30.25	1