

NON-MAGNETIC SIGNAL DISTRIBUTION PRODUCTS FOR MRI MARKET

100% Tested for Magnetism - RoHS and REACH compliant

Couplers

- Available in a low profile, SMD package for applications at 1.5T, 3T and 7T
- Excellent repeatability
- Reduced size over lumped elements design
- No tuning required
- Improve system reliability
- Excellent amplitude balance
- Available for transmit and receive circuits
- Excellent peak power

HybriX® Couplers					
Part Number	Frequency [MHz]	Power Rating [watts]	Amplitude Balance [+/-dB max]	Insertion loss [dB Max]	Size [in]
HG064MF	54-74	300	0.5	0.2	2.000 x 2.000
HD064MF	59-69	10	0.1	0.1	0.560 x 0.350
HE128MF	123-133	300	0.1	0.23	1.000 x 1.000
HE298MF	293-303	300	0.1	0.17	1.000 x 1.000

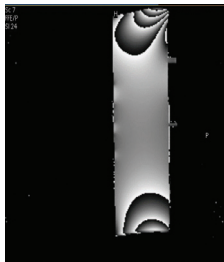
Crossovers

Used as bridges to connect circuit traces that must jump over another:

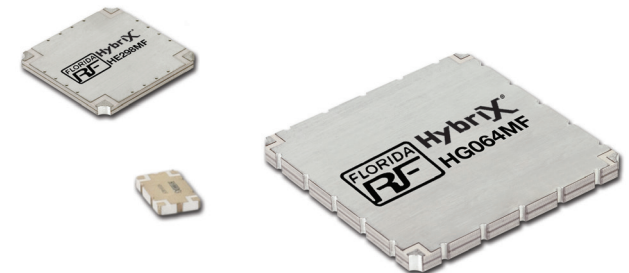
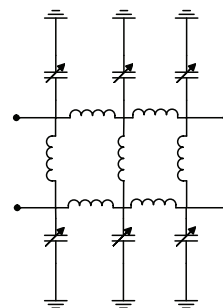
- Eliminate jumpers and multilayer boards
- Reduce system complexity
- High Isolation

Our products show no distortion in MRI Environments

3T Phantom no signature



Same Phantom magnetic signature



Get rid of caps & coils!

HybriX® Crossover					
Part Number	Frequency [MHz]	Power Rating [watts]	IL [dB]	Isolation	Size [in]
XPMRF	DC-500	200	0.05	40	0.200 x 0.200
XFMRF	DC-2500	10	0.005	50	0.126 x 0.100



Non-Magnetic Smart Detector

- Power sensing termination designed to measure true RMS power with built in temperature compensation
- Replaces active diode detectors



Resistors, Terminations & Attenuators

- For applications with higher average power requirements
- If it's in our catalog, we can make it non-magnetic

Ordering Information

3	1	M	1	0 0 1	0 5 0	F
<u>STYLE</u>	<u>TYPE</u>	<u>PLATING OPTION</u>	<u>SUBSTRATE MATERIAL</u>	<u>DESCRIPTIONS</u>	<u>VALUE</u>	RoHS Compliant
3 = High Power Flange	1 = Resistor 2 = Termination 3 = Attenuator	M = Non-magnetic	1 = BeO (Beryllium Oxide) 7 = AlN (Aluminum Nitride)	Random Numbers	Blank = Termination XXX = Resistor (ohms) XX.XX = Attenuator (dB)	



PST-10-M-1F Specifications	
Frequency Range	DC - 6 GHz
Power Supply	0 to 25V, 14 mAmps Typ
Output Slope	400 mV/W
Max Input Power	1.1 Watts
VSWR	125:1 DC - 6 GHz
Operating Temperature	-55 deg. C to + 125 deg. C
Substrate	Alumina
Response Time	3 milli seconds

