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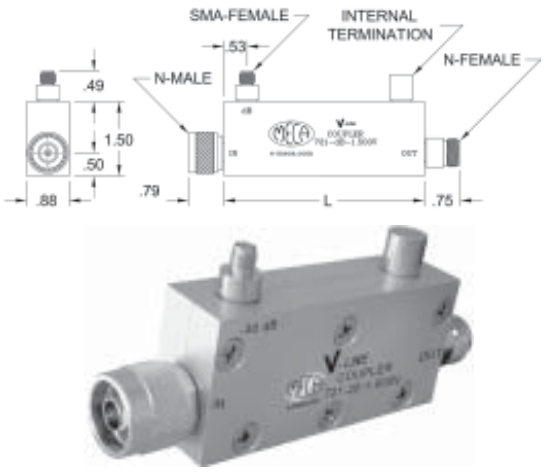
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Find the *e-Meca 722-20-1* at our website: ***Click HERE***

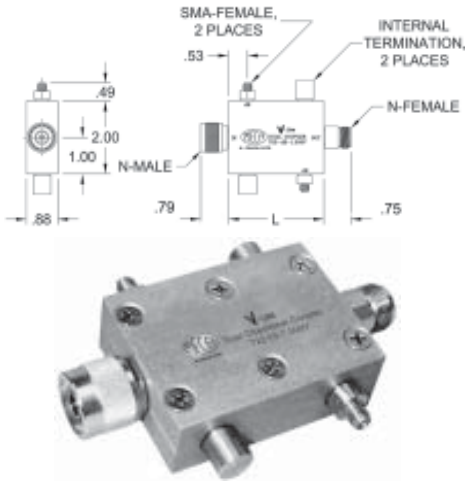
DIRECTIONAL COUPLERS

Single / Dual Directional, N-Male/Female, SMA-Female: 721, 722 Series

721 Series - Single Directional



722 Series - Dual Directional



These "in-line" designs eliminate the need for connector adaptors that add loss and uncertainty to your critical measurements. MECA's 721 & 722 series directional couplers are high power capable with extremely low insertion loss and are ideal for your system applications where precise monitoring, external leveling, signal mixing or swept transmission and reflection measurements are desired. These couplers are furnished with plated brass N-Male/Female mainline connectors, stainless steel SMA-Female coupled port connectors, gold-plated contact pins, virgin electrical grade PTFE insulation within the connectors and a rugged aluminum housing. Passive intermodulation (PIM) performance of better than -140 dBc is available when the silver-plated connector option (**P**) is specified.

Catalog Number		Frequency (GHz)	Coupling Variation (Total)	Insertion Loss (Max) [1]	VSWR (Max)	Directivity (Min)	Length (L) (Inches)
Single	Dual						
721-dB-0.900	722-dB-0.900	0.800 - 1.000	± 0.6 dB	0.1 dB	1.10:1	30 dB	4.46
		0.600 - 1.200	± 1.2 dB	0.1 dB	1.15:1	25 dB	4.46
V-Line 721-dB-1.500V	722-dB-1.500V	0.800 - 2.200	± 1.75 dB	0.1 dB	1.15:1	25 dB	3.15
721-dB-1.950	722-dB-1.950	1.700 - 2.200	± 0.6 dB	0.1 dB	1.10:1	25 dB	2.70
		1.300 - 2.600	± 1.2 dB	0.1 dB	1.15:1	25 dB	2.70
721-dB-3.000	722-dB-3.000	2.000 - 4.000	± 1.0 dB	0.1 dB	1.15:1	25 dB	2.10

Nominal coupling values of **10**, **20**, **30** and **40 dB** are standard. To order or specify, please insert coupling value in place of dB.
EXAMPLE: 721-**10**-1.500V-P for single diretional, **10 dB**, 0.800 - 2.200 GHz, PIM option.

Average Power (Watts) [2]						
Coupling Value		6 dB	10 dB	20 dB	30 dB	40 dB
721	Forward	100	100	500	500	500
	Reverse	10	25	250	500	500
722	Forward/Reverse	10	25	250	500	500
Theoretical Insertion Loss Due to Coupling Factor						
Insertion Loss (dB)	721	1.2560	0.4560	0.0436	0.0043	0.0004
	722	2.5120	0.9120	0.0872	0.0086	0.0008

Notes:

1.) Excluding theoretical insertion loss due to coupling (see table).
2.) All units have a peak power rating of 10 kW.
3.) 50 ohm nominal impedance standard.
4.) Operating temperature is from -65° C to +150° C.

V-Line directional couplers are designed to cover all wireless bands from **cellular** through **UMTS** (0.800 - 2.200 GHz), and offer industry leading performance, quality, reliability, selection and convenience.

Customized solutions at off-the-shelf prices!

Custom configurations with special coupling values, frequency ranges to 18 GHz, external high power terminations and alternate connector styles or plating are also readily available in quantity. All models may be specified without an internal termination for bi-directional coupling. ***If you don't see what you want, call us.***

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Toll Free: (866) 444 - MECA ● Phone: (973) 625 - 0661 ● Fax: (973) 625 - 1258 ● www.e-meca.com

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