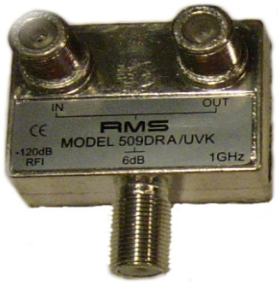
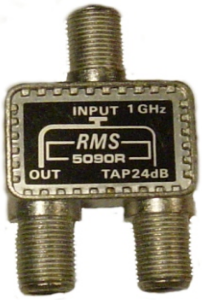
RMS 509DRAUVK, 1090DMK, 5090DRK & SV2DGRDC

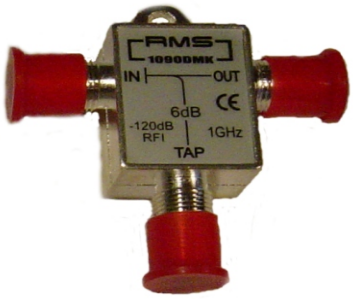
Single Port 1GHz Directional Couplers



*509DRAUVK**



*5090DRK**



*1090DMK**

1090DMK Now Available in 4dB For Cable Modems

*SV2DGRDC**

RMS offers the "**Best Selection**" of single port directional couplers.The 509DRAUVK is designed for "Wall Plate" mounting. The 1090DMK is a "T Type" and I s great for lab or headend use. The 5090RK is a "Raceway" type and is great for applications where space is limited and the SV2DGRDC is a vertical port DC that has been designed for MDU, drop or headend use.

Features:

- **Bandwidth 5MHz to 1GHz**
- **RFI Shielding >-120dB**
- **Micro-strip designed PCB for consistency of specifications and superior total bandwidth characteristics**
- **Premium ferrites, resistors and capacitors**
- **Laminated ID label that will not fade**
- **Zinc housing that is chromated and plated for maximum corrosion resistance**
- **Precision machined "F" ports**
- **Each unit is individually packaged with mounting screws & F port protectors**
- **100% quality control at our factory**
- **CE approved**
- **Dual flush mounting tabs and ground screw for easy installation on the SV2DGRDC**
- **Modified 360 degree contacts that offer excellent contact between coax and F61 also has an excellent wiping action**
- **Concave solder back design assures 100% sealing of back plate to the housing and prevents pinholes**
- **Excellent insertion loss, tap loss, isolation (port/port) & return loss (input/output)**
- **Low Intermod spec now available on some models of the 509, 1090, 5090 & SV2DGRDC's (see note on next page)**

RMS 509DRAUVK, 1090DMK, 5090dRK & SV2DGRDC

Single Port 1GHz Directional Couplers

Specifications 509DRAUVK*, 1090DMK*, 5090DRK* & SV2DGRDC* (Note 2) = * Indicates dB Value

Parameter	Frequency MHz	4dB (1)	6dB	9dB	12dB	16dB	20dB	24dB	27dB	30dB
Tap Loss +/- (dB)	5-15	1.0	1.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	15-40	1.0	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	40-200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	200-550	1.0	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	550-750	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	750-1GHz	1.2	1.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Insertion Loss (Max dB)	5-15	3.6	2.8	1.6	1.2	1.0	0.6	0.6	0.6	0.6
	15-40	3.6	2.6	1.6	1.0	0.8	0.6	0.6	0.6	0.6
	40-200	3.8	2.6	1.6	1.0	0.8	0.6	0.6	0.6	0.6
	200-550	3.8	2.7	1.7	1.0	0.8	0.8	0.8	0.8	0.8
	550-750	4	2.8	2.0	1.2	1.0	1.0	1.0	1.0	1.0
	750-1GHz	4.3	3.2	2.3	1.5	1.3	1.3	1.3	1.3	1.3
Isolation (Tap to Output) (Min dB)	5-15	25	25	25	25	30	30	35	38	40
	15-40	30	28	30	32	33	35	36	40	42
	40-200	28	25	26	30	30	30	32	33	38
	200-550	25	22	25	28	28	28	30	32	35
	550-750	25	22	22	25	26	26	28	30	32
	750-1GHz	22	20	20	24	25	25	28	30	32
Return Loss (Input/Output) (Min dB)	5-15	18	18	18	18	18	18	18	18	18
	15-40	22	22	20	22	22	22	22	22	22
	40-200	20	18	18	20	20	20	20	20	20
	200-550	20	18	18	20	20	20	20	20	20
	550-750	18	18	18	18	18	18	18	18	18
	750-1GHz	18	18	18	18	18	18	18	18	18
Return Loss (Tap) (Min dB)	5-15	18	18	18	18	18	18	18	18	18
	15-40	24	24	24	24	26	26	26	26	26
	40-200	20	20	20	20	20	20	20	20	20
	200-550	20	20	20	20	20	20	20	20	20
	550-750	18	18	18	18	18	18	18	18	18
	750-1GHz	18	18	18	18	18	18	18	18	18
RFI Min	5MHz-1GHz	<------	-------	-------	-------	-120dB	-------	-------	-------	------->
Temperature Range	5MHz-1GHz	<------	-------	-------		-40C to +70C		-------	-------	------->
Spurious Signals		<------	-------			'-45dBmV after 6KV ring wave surge			-------	------->
Incl 2nd Harmonics (D Version Only)						Measured with a 55dBmV return input carrier				
Surge Protection		<------	-------			6KV Ring wave surge IEEE C62.41 Category A3				------->
Waterproof		<------	-------	-------		10psi		-------	-------	------->
Impedance		<------	-------	-------		75 Ohm		-------	-------	------->

Please note that the above specifications are our "QA Spec" or worst case values - The "Typical Spec" will be higher.

Specifications are subject to change.

Availability of dB values -->		4dB	6dB	9dB	12dB	16dB	20dB	24dB	27dB	30dB
Models	509DRAUVK									
"	1090DMK->	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
"	5090DRK->	**No**	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
"	SV2DGRDC->	**No**	Yes	Yes	Yes	Yes	**No**	**No**	**No**	**No**

RMS Communications Inc
11516 Downs Road, Pineville, North Carolina. 28134 USA
Email: sales@rmscommunications.net - Phone (704) 588-4008