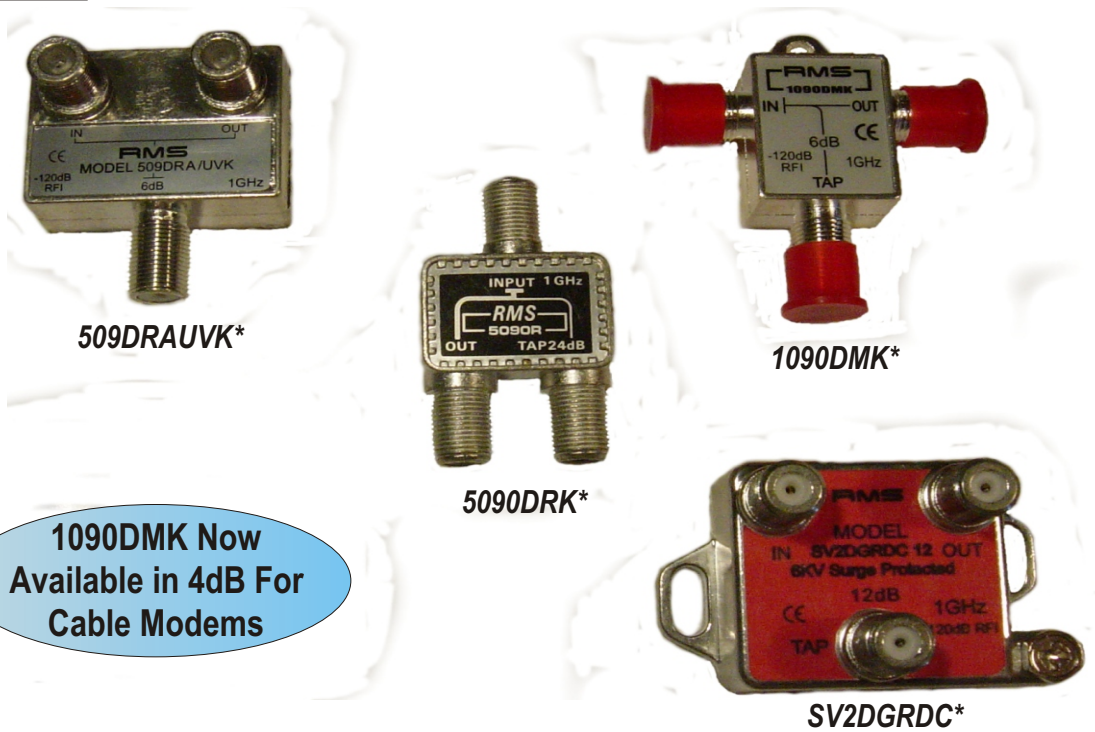




509DRAUVK, 1090DMK, 5090DRK & SV2DGRDC

Single Port 1GHz Directional Couplers



1090DMK Now Available in 4dB For Cable Modems

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 is great for lab or headend use. The 5090DRK 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 Communications Inc

11516 Downs Road, Pineville, North Carolina. 28134 USA
Toll Free: 1-800-223-8312 - Phone (704) 588-4008



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 Incl 2nd Harmonics (D Version Only)		<----- -45dBmV after 6KV ring wave surge Measured with a 55dBmV return input carrier ----->								
Surge Protection		<----- 6KV Ring wave surge IEEE C62.41 Category A3 ----->								
Waterproof		<----- 10psi ----->								
Impedance		<----- 75 Ohm ----->								

Note (1) The 4dB is only available in the 1090DMK series - Note (2) Only available in 6dB, 9dB, 12dB & 16dB (See below)

Please note that we still have stock of the none "D" versions of some of the above models and once this inventory is gone we will replace with "D" type

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 (1)	6dB	9dB	12dB	16dB	20dB	24dB	27dB	30dB
Models	509DRAUVK->	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
"	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

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