

RF COAXIAL ISOLATORS

SECTION I

DESCRIPTION	PAGE
NOTES FOR COAXIAL ISOLATOR DEVICES.	2
COAXIAL ISOLATORS PART I (0.2 to 1.2 GHz).....	3
COAXIAL ISOLATORS PART II (0.2 to 2.7 GHz).....	4
COAXIAL ISOLATORS PART III (2.0 to 18 GHz).....	5



NOTES FOR ISOLATOR DEVICES

RACOMTECH coaxial isolators and circulators are designed for a wide range of high performance applications at a low cost. These devices operate at frequencies from 0.2 to 18GHz. All units have standard SMA N type connectors.

- Features
 - Custom design
 - Wide range of standard products
- High Performance
 - All standard connector types are available
- Frequency range
 - Standard frequency range of 0.2 to 18GHz
 - Special bands can be offered.
- Temperature range
 - Standard temperature range -30 to +70°C
 - Electrical parameters perform at the standard operating temperature range.
 - Other temperature ranges are available (Please contact RACOMTECH)
- Materials and Plating
 - Clear anodized aluminium or silver plated brass
 - Painting available on request
- Custom features
 - RACOMTECH has the ability to provide a wide range of solutions to meet most application

COAXIAL ISOLATORS

Part I

Frequency Range 0.2GHz- 1.2GHz



Model	Frequency Range (GHz)	Bandwidth (MHz)	Insertion loss (dB.Max)	Isolation (dB.Min)	VSWR (Max)	Operating Temperature (°C)	Reverse Power (W)	Size L*W*H (mm)	Connector Type
TG0101B	0.2-0.25	8	0.6	16	1.4	-20 / +60	100	50.5*80*22	SMA/N
TG0101A-B	0.15-0.25	8	0.6	16	1.2	-15 / +60	100	70*97*22	SMA/N
TG0301A	0.15-0.25	30	0.3	25	1.2	-15 / +60	10	52*57.5*22	SMA/N
TG0301B	0.15-0.25	30	0.3	25	1.2	-15 / +60	100	52*84.5*22	SMA/N
TG0301S-100	0.15-0.25	30	0.5	50	1.2	-15 / +60	100	104*57.5*22	SMA/N
TG0401A	0.15-0.25	30	0.3	25	1.2	-15 / +60	10	44*49.5*21	SMA/N
TG0401B	0.15-0.25	30	0.3	25	1.2	-15 / +60	100	44*76.5*21	SMA/N
TG0701	0.4-0.6	10	0.3	25	1.2	-15 / +60	10	35*38*20	SMA/N
	0.6-1.0	30	0.3	25	1.2	-30 / +70			
		200	0.4	20	1.25				
TG0701B-150	0.6-1.0	30	0.3	25	1.2	-30 / +70	150	35*60*20	SMA/N
		200	0.4	20	1.25				
TG101	0.8-1.2	70	0.3	25	1.2	-30 / +70	10	30*33*20	SMA/N
		200	0.4	20	1.25				
TG101B	0.8-1.2	70	0.3	25	1.2	-30 / +70	100	30*43*20	SMA/N
		200	0.4	20	1.25				
TG101-S1	0.8-1.2	70	0.3	25	1.2	-30 / +70	10	30*33*20	SMA
		200	0.4	20	1.25				
TG101SB	0.8-1.2	25	0.4	50	1.2	-30 / +70	10	60*33*20	SMA/N

Note:

- LOAD POWER RATING CAN BE 0.5W to 10W - SPECIFY HIGHER POWER RATING IF REQUIRED

COAXIAL ISOLATORS

Part II

Frequency Range 0.2GHz- 2.7GHz

Model	Frequency Range (GHz)	Bandwidth (MHz)	Insertion loss (dB.Max)	Isolation (dB.Min)	VSWR (Max)	Operating Temperature (°C)	Reverse Power (W)	Size L*W*H (mm)	Connector Type
TG0101	0.2-0.25	20	0.5	18	1.3	0 / +60	10	50.5*53*22	SMA/N
TG0101B	0.2-0.25	20	0.5	18	1.3	0 / +60	100	50.5*80*22	SMA/N
TG0101A	0.15-0.2	8	0.6	16	1.4	0 / +60	10	70*70*22	SMA/N
TG0101A-B	0.15-0.2	20	0.5	18	1.3	0 / +60	100	70*97*22	SMA/N
TG0301A	0.3-0.4	30	0.3	25	1.2	-15 / +60	10	52*57.5*22	SMA/N
TG0301B	0.3-0.4	30	0.3	25	1.2	-15 / +60	100	52*84.5*22	SMA/N
TG0301S-100	0.3-0.5	30	0.5	50	1.2	-15 / +60	100	104*57.5*22	SMA/N
TG0401A	0.4-0.6	30	0.3	25	1.2	-15 / +60	10	44*49.5*21	SMA/N
TG0401B	0.4-0.6	30	0.3	25	1.2	-15 / +60	100	44*76.5*21	SMA/N
TG0701	0.4-0.6	10	0.3	25	1.2	-15 / +60	10	35*38*20	SMA/N
	0.6-1.0	30	0.3	25	1.2	-30 / +70			
		200	0.4	20	1.25				
TG0701-S1	0.4-0.6	10	0.3	25	1.2	-15 / +60	10	35*38*15	SMA
	0.6-1.0	30	0.3	25	1.2	-30 / +70			
		200	0.4	20	1.25				
TG0701B-150	0.6-1.0	30	0.3	25	1.2	-30 / +70	150	35*60*20	SMA/N
		200	0.4	*18	1.25				
TG101	0.8-1.2	70	0.3	25	1.2	-30 / +70	10	30*33*20	SMA/N
		200	0.4	20	1.25				
TG101B	0.8-1.2	70	0.3	25	1.2	-30 / +70	100	30*43*20	SMA/N
		200	0.4	20	1.25				
TG101-S1	0.8-1.2	70	0.3	25	1.2	-30 / +70	10	30*33*15	SMA
		200	0.4	20	1.25				
TG101A	1.2-2.7	70	0.3	25	1.2	-30 / +70	10	25.4*28.5*20	SMA/N
	1.2-2.7	200	0.4	20	1.25				
TG101-S1	0.8-1.2	70	0.3	25	1.2	-30 / +70	10	30*33*15	SMA
		200	0.4	20	1.25				
TG101A	1.2-2.7	70	0.3	25	1.2	-30 / +70	10	25.4*28.5*20	SMA/N
	1.2-2.7	200	0.4	20	1.25				

Note:

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COAXIAL ISOLATORS

Part III

Frequency Range 2GHz- 18GHz



Model	Frequency Range (GHz)	Bandwidth (MHz)	Insertion loss (dB.Max)	Isolation (dB.Min)	VSWR (Max)	Operating Temperature (°C)	Reverse Power (W)	Size L*W*H (mm)	Connector Type
TG201D	2-3.5	200	0.3	23	1.2	-30 / +70	10	20*25*14	SMA
TG401	3.5-6.5	300	0.3	25	1.2	-40 / +75	10	16*26*15	SMA
		600	0.4	23	1.2				
TG401C-100	3.5-6	300	0.3	25	1.2	-40 / +75	100	25.4*39*21	SMA/N
		600	0.4	23	1.2				
TG401D	3.5-6.5	300	0.3	25	1.2	-40 / +75	10	16*26*19	N
		600	0.4	23	1.2				
TG401DS	3.5-6.5	300	0.3	25	1.2	-40 / +75	10	32*26*19	N
		600	0.4	23	1.2				
TG501S1	5-7	300	0.6	50	1.2	-40 / +75	10	30*21*14	SMA
TG601A	3.5-6.5	300	0.3	25	1.2	-40 / +75	10	16*26*13	SMA
		600	0.4	23	1.2				
TG601S	3.5-6.5	300	0.3	25	1.2	-40 / +75	10	32*16*13	SMA
		600	0.4	23	1.2				
TG501F	5-8	300	0.3	25	1.2	-40 / +75	10	16*24*14	SMA
		600	0.4	23	1.2				
TG801	7-18	500	0.3	25	1.2	-40 / +75	10	12*20*13	SMA
		1000	0.4	23	1.2				
TG801F	7-18	500	0.3	25	1.2	-40 / +75	10	12*20*13	SMA
		1000	0.4	23	1.2				
TG801F8	7-18	500	0.3	25	1.2	-40 / +75	10	12*20*13	SMA
		1000	0.4	23	1.2				
TG801F2	7-18	500	0.3	25	1.2	-40 / +75	10	12*23*19	N
		1000	0.4	23	1.2				
TG1201S	7-18	500	0.5	50	1.2	-40 / +75	10	24*20*13	SMA

Note:

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