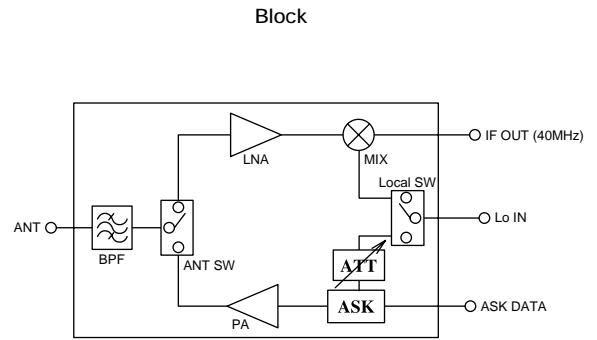
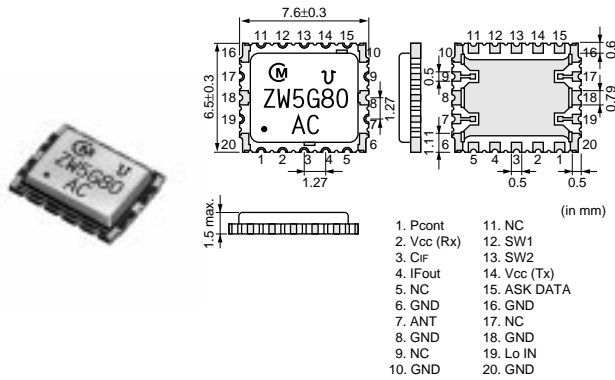


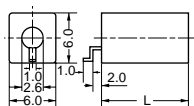
RF Sub Modules



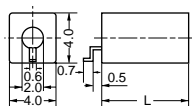
Part Number	Supply Voltage (V)	Frequency (GHz)	Constructure				Size (mm)
RZWJG5G80CMAC00RCB	3.3	5.8	BPF+ANT SW	Rx	LNA+MIX	Local SW	7.6 x 6.5 x 1.5
RZWJG5G80CMAC00RD2				Tx	PA+ASK+ATT		

Dielectric Resonators (RESOMICS®)

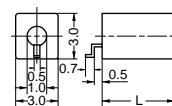
TEM Mode Resonators



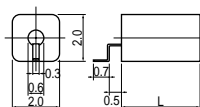
DRR060 Type
Copper



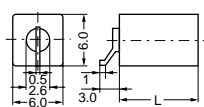
DRR040 Type
Copper



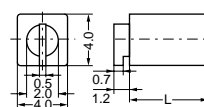
DRR030 Type
Copper



DRR020 Type
Copper



DRR060 Type
Silver



DRR040 Type
Silver

L : Depends on frequency.

in mm

● Available Range of TEM Mode Resonators

Electrode	Material	ϵ_r	$\tau f^{(1)}$ (ppm/°C)	Type	Characteristic Impedance	Resonant Wave Length	Frequency Range ⁽²⁾ (MHz)	Qu min ⁽³⁾
Copper	P	21.4±0.2	4±2	DRR060	11.9Ω	$\lambda/4$	1,000 to 1,190	550
							1,200 to 1,790	600
							1,800 to 2,700	650
						$\lambda/2$	2,000 to 2,490	800
							2,500 to 3,000	850
				DRR040	10.0Ω	$\lambda/4$	1,300 to 1,490	350
							1,500 to 1,990	400
							2,000 to 3,000	450
				DRR030	15.4Ω	$\lambda/4$	1,900 to 2,490	380
							2,500 to 3,000	400
				DRR020	16.7Ω	$\lambda/4$	2,800 to 3,500	250
							3,510 to 5,000	300
	K	92±1	3±2	DRR060	5.7Ω	$\lambda/4$	440 to 490	330
							500 to 790	350
							800 to 1,300	400
						$\lambda/2$	1,000 to 1,690	470
							1,700 to 2,200	510
				DRR040	4.8Ω	$\lambda/4$	500 to 540	200
							550 to 640	220
							650 to 790	240
							800 to 890	260
							900 to 1,490	270
							1,500 to 1,800	290
							1,000 to 1,390	300
						$\lambda/2$	1,400 to 1,890	340
							1,900 to 3,000	370
				DRR030	7.4Ω	$\lambda/4$	900 to 1,490	230
							1,500 to 1,600	250
				DRR020	8.0Ω	$\lambda/4$	900 to 1,590	150
							1,600 to 2,600	190

Continued on the following page.

△Note • This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specification or transact the approval sheet for product specification before ordering. Especially, please read rating and **△CAUTION** (for storage and operating, rating, soldering and mounting, handling) in them to prevent smoking and/or burning, etc.
• You are able to read a detailed specification in the website (<http://search.murata.co.jp/>) before to require our product specification or to transact the approval sheet for product specification.

Continued from the preceding page.

Electrode	Material	ϵ_r	$\tau f^{(1)}$ (ppm/°C)	Type	Characteristic Impedance	Resonant Wave Length	Frequency Range ²⁾ (MHz)	Qu min ³⁾
Silver	U	38±1	3±2	DRR060	8.8Ω	$\lambda/4$	680 to 1,540	450
							1,550 to 1,800	550
						$\lambda/2$	1,600 to 2,390	700
							2,400 to 3,500	800
				DRR040	7.4Ω	$\lambda/4$	1,000 to 1,990	360
						$\lambda/2$	2,000 to 2,700	400
	K	92±1	3±2	DRR060	5.7Ω	$\lambda/4$	440 to 790	350
						$\lambda/2$	800 to 1,300	400
							1,000 to 1,690	500
							1,700 to 2,200	560
				DRR040	4.8Ω	$\lambda/4$	660 to 1,190	250
						$\lambda/2$	1,200 to 1,650	280
							1,300 to 1,990	320
							2,000 to 3,000	350

1) Frequency temperature coefficient.

2) Tolerance of resonant frequency (P : ±0.7%max., U : ±0.5%max., K : ±0.7%max.).

3) Qu value depends on lower limit of frequency range.

Dielectric Resonators (RESOMICS®)

TE₀₁₈ Mode Resonators



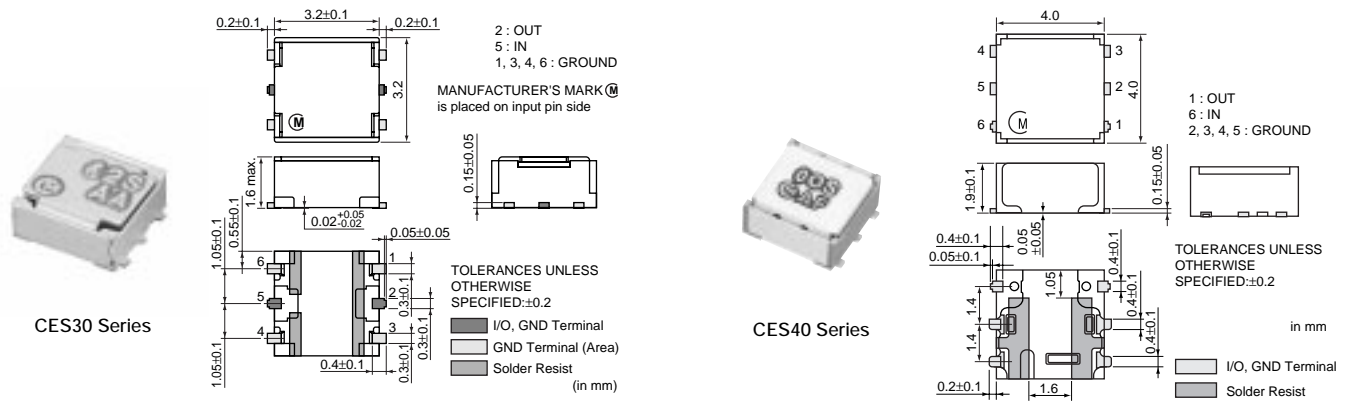
DRD Type

● Available Range by Every Material

Material	ϵ_r	Q min at Measured Freq.	Available Range of τf (ppm/°C)	τf Tolerance (ppm/°C)	Available Range of Freq. (GHz)
F Series	24	30,000 (10GHz)	0 to +4	$\pm 2, \pm 1$	9.98 to 25.15
E Series	24	20,000 (10GHz)	0 to +6	$\pm 2, \pm 1$	8.44 to 25.15
B Series	28	15,000 (10GHz)	0 to +6	$\pm 2, \pm 1, \pm 0.5$	4.83 to 25.94
R Series	30	12,000 (10GHz)	0 to +6	$\pm 2, \pm 1, \pm 0.5$	4.60 to 24.20
V Series	34	10,000 (10GHz)	0 to +8	$\pm 2, \pm 1, \pm 0.5$	2.91 to 13.24
M Series	38	7,000 (7GHz)	0 to +6	$\pm 2, \pm 1, \pm 0.5$	1.54 to 12.45
U Series	38	6,000 (7GHz)	-4 to +10	$\pm 2, \pm 1, \pm 0.5$	1.54 to 12.45

TE mode resonator with support and frequency-adjusted resonators are available.

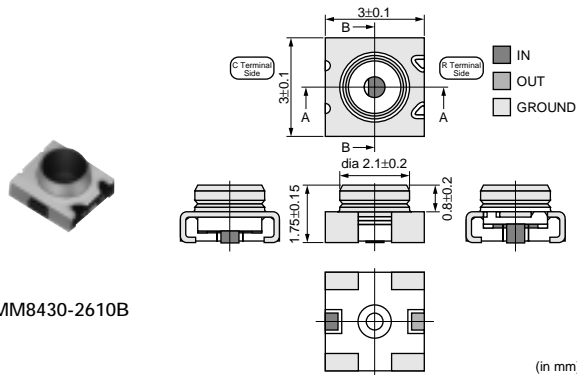
Isolators



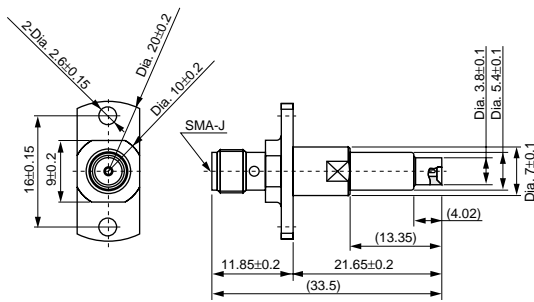
Part Number	Fo (MHz)	IL at BW (dB)	Isolation (dB)	Rating Power (W)
CES40836MDCB000	836.5	0.75 max.	10.5 min.	2.5 max.
CES40906MDCB000	906	0.78 max.	10 min.	2.5 max.
CES301G88DCB000	1880	0.64 max.	13 min.	2.5 max.
CES301G95DCB000	1950	0.6 max.	13 min.	2.5 max.
CES301G44CCB000	1441	0.64 max.	12.5 min.	2.5 max.

Operating Temperature Range : -35°C to +85°C

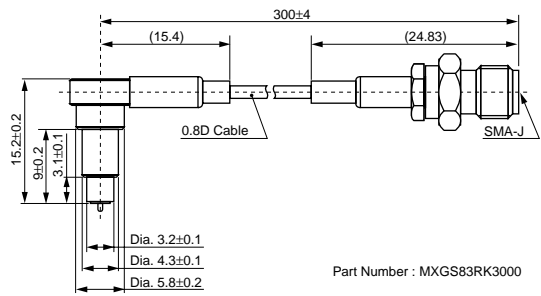
Coaxial Connectors with Switches



Measurement Probe (P/N:MM126036)



Measurement Probe (P/N:MXGS83RK3000)



Part Number	Rated Voltage (Vrms)	Frequency Rating (GHz)	Temperature Range	VSWR
MM8430-2610B	250	to 6	-40 to +85degree C	1.2 max.(DC to 3GHz)

Impedance : 50ohm