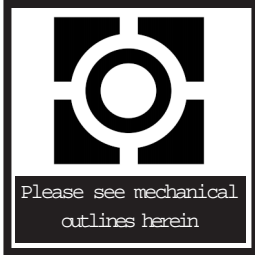


DESC APPROVED LOW DROPOUT NEGATIVE



Three Terminal, Fixed Voltage,
Low Dropout Negative Voltage Regulator
In Hermetic Packages

FEATURES

- Approved To DESC Standardized Military Drawings
- Low Dropout Voltage, 0.6 V @ $I_o = 1\text{ A}$
- Output Current in Excess of 1 A [LCC 20 (N2) package limited to 0.3A]
- Reverse Battery Protection
- Internal Short Circuit Protection
- Isolated and Non-Isolated Hermetic Package Types
- Output Voltages: - 5V, -5.2V, -12V, & -15V

13

DESCRIPTION

The OM2990 series of fixed voltage regulators are designed to provide up to 1.5A with high efficiency. It has the ability to source 1A of output current with a typical dropout voltage of 0.6V and a maximum of 1V over the entire operating temperature range. It is supplied in hermetic packages and is ideally suited for all applications where small size and high reliability are required.

ABSOLUTE MAXIMUM RATINGS, $T_c = 25^\circ\text{C}$

Input Voltage	-26 V to +0.3V
Output Voltage	-5V, -5.2 V, -12 V, -15 V dc
Operating Junction Temperature Range	- 55°C to + 125°C
Storage Temperature Range	- 65°C to + 150°C
Lead Temperature (Soldering 10 seconds)	300°C
Thermal Resistance: Junction to Case	
Case 2, LCC20	15.5°C/W
Case U&M, TO-257 (isolated) & SMD-3	3.8°C/W
Case T&N, TO-257 (non-isolated) & SMD-1	3.0°C/W
Case Y, TO-3	2.7°C/W
Maximum Output Current	
Case 2	0.3A
Case U&M	1.2A
Case T, N & Y	1.5A

APPROVED DESC DRAWING	OMNIREL P/N
5962-9571101MUA	OM2990 - 5 STM
5962-9571002MUA	OM2990 - 5.2 STM
5962-9571001MUA	OM2990 - 12 STM

ELECTRICAL CHARACTERISTICS, OM2990-5NK, NM, NT (-5 VOLTS)

Test Conditions are -55°C, T_a 125°C, V_{IN} = -10V, C_{OUT} = 47 μF (unless otherwise specified).

Parameter	Symbol	Test Conditions	Notes	Min.	Max.	Unit
Output Voltage	V _{OUT}	5 mA ≤ I _O ≤ 1.0 A	1	-5.10	-4.90	V
			2	-5.25	-4.75	
Quiescent Current	I _Q	I _O ≤ 1.0A	1		5	mA
			2		12	
			1,2	I _I = 1.0A, V _{IN} = -5 V	50	
Line Regulation	V _{RLN}	-6 V V _{IN} -26 V, I _{OUT} = 5 mA	1		±40	mV
			2		±50	
Load Regulation	V _{RLD}	50 mA I _{OUT} 1.0 A	1		±50	mV
			2		±100	
Dropout Voltage	V _{DO}	I _O = 0.1 A DV _O 100 mV	1		3	V
			2			
			1	I _O = 1.0 A DV _O 100 mV	1	
			2			
Output Noise Voltage	V _{ON}	I _O = 5 mA, 10 Hz - 100 kHz	3		750	μV
Short Circuit Current	I _{SC}	R _L = 1	1	1.5		A
			2	1.3		
Maximum Output Current	I _{MAX}		1	1.5		A
Ripple Rejection	R _R	V _{ripple} = 1 V _{rms} I _{OUT} = 5 mA, f = 1 kHz	1	50		dB

Notes: 1. T_a = 25°C.
2. Over full operating temperature range.
3. Guaranteed, not tested.

ELECTRICAL CHARACTERISTICS, OM2990-12NK, NM, NT (-12 VOLTS)

Test Conditions are -55°C, T_a 125°C, V_{IN} = -17V, C_{OUT} = 47 μF (unless otherwise specified).

Parameter	Symbol	Test Conditions	Notes	Min.	Max.	Unit
Output Voltage	V _{OUT}	5 mA ≤ I _O ≤ 1.0A	1	-12.24	-11.76	V
			2	-12.60	-11.40	
Quiescent Current	I _Q	I _O ≤ 1.0A	1		5	mA
			2		12	
			1,2	I _I = 1A, V _{IN} = -12 V	50	
Line Regulation	V _{RLN}	-13 V V _{IN} -26 V, I _{OUT} = 5 mA	1		±65	mV
			2		±80	
Load Regulation	V _{RLD}	50 mA I _{OUT} 1.0 A	1		±80	mV
			2		±120	
Dropout Voltage	V _{DO}	I _O = 0.1 A DV _O 100 mV	1		3	V
			2			
			1	I _O = 1 A DV _O 100 mV	1	
			2			
Output Noise Voltage	V _{ON}	I _O = 5 mA, 10 Hz - 100 kHz	3		1500	μV
Short Circuit Current	I _{SC}	R _L = 1	1	.90		A
			2	.75		
Maximum Output Current	I _{MAX}		1	1.4		A
Ripple Rejection	R _R	V _{ripple} = 1 V _{rms} I _{OUT} = 5 mA, f = 1 kHz	1	42		dB

Notes: 1. T_a = 25°C.
2. Over full operating temperature range.
3. Guaranteed, not tested.
4. The short circuit current is less than the maximum output current due to internal foldback current limiting. The -5V and -5.2V versions do not reach the foldback current limit and therefore conducts a higher short

ELECTRICAL CHARACTERISTICS, OM2990-15NK, NM, NT (-15 VOLTS)

Test Conditions are -55°C, T_a 125°C, V_{IN} = -20V, C_{OUT} = 47 μF (unless otherwise specified).

Parameter	Symbol	Test Conditions	Notes	Min.	Max.	Unit
Output Voltage	V _{OUT}	5 mA ≤ I _O ≤ 1.0 A	1	-15.30	-14.70	V
			2	-15.75	-14.25	
Quiescent Current	I _Q	I _O ≤ 1.0A	1		15	mA
			2		20	
			1,2	I _I = 1.0A, V _{IN} = -15 V	50	
Line Regulation	V _{RLN}	-16 V V _{IN} -26 V, I _{OUT} = 5 mA	1		±75	mV
			2		±120	
Load Regulation	V _{RLD}	50 mA I _{OUT} 1.0 A	1		±120	mV
			2		±190	
Dropout Voltage	V _{DO}	I _O = 0.1 A DV _O 100 mV	1		3	V
			2			
			1	I _O = 1.0 A DV _O 100 mV	1	
			2			
Output Noise Voltage	V _{ON}	I _O = 5 mA, 10 Hz - 100 kHz	3		1800	μV
Short Circuit Current	I _{SC}	R _L = 1	1	.75		A
			2	.62		
Maximum Output Current	I _{MAX}		1	1.4		A
Ripple Rejection	R _R	V _{ripple} = 1 V _{rms} I _{OUT} = 5 mA, f = 1 kHz	1	42		dB

Notes: 1. T_a = 25°C.
2. Over full operating temperature range.
3. Guaranteed, not tested.
4. The short circuit current is less than the maximum output current due to internal foldback current limiting. The -5V and -5.2V versions do not reach the foldback current limit and therefore conducts a higher short circuit level.

ELECTRICAL CHARACTERISTICS, OM2990-5SM, ST (-5 VOLTS)

Test Conditions are -55°C, T_a 125°C, V_{IN} = -10V, C_{OUT} = 47 μF (unless otherwise specified).

Parameter	Symbol	Test Conditions	Notes	Min.	Max.	Unit
Output Voltage	V _{OUT}	5 mA ≤ I _O ≤ 1.0 A	1 2	-5.10 -5.25	-4.90 -4.75	V
Quiescent Current	I _Q	I _O ≤ 1.0A	1 2		5 12	mA
		I _I = 1.0A, V _{IN} = -5 V	1,2		50	
Line Regulation	V _{RLN}	-6 V V _{IN} -26 V, I _{OUT} = 5 mA	1 2		±45 ±55	mV
Load Regulation	V _{RLD}	50 mA I _{OUT} 1.0 A	1 2		±70 ±110	mV
Dropout Voltage	V _{DO}	I _O = 0.1 A	1		3	V
		DV _O 100 mV	2			
		I _O = 1.0 A	1		1	
		DV _O 100 mV	2			
Output Noise Voltage	V _{ON}	I _O = 5 mA, 10 Hz - 100 kHz	3		750	μV
Short Circuit Current	I _{SC}	R _L = 1	1,2	1.27		A
Maximum Output Current	I _{MAX}		1	1.27		A
Ripple Rejection	R _R	V _{ripple} = 1 V _{rms} I _{OUT} = 5 mA, f = 1 kHz	1	50		dB

Notes: 1. T_a = 25°C.
2. Over full operating temperature range.
3. Guaranteed, not tested.

ELECTRICAL CHARACTERISTICS, OM2990-12SM, ST (-12 VOLTS)

Test Conditions are -55°C, T_a 125°C, V_{IN} = -17V, C_{OUT} = 47 μF (unless otherwise specified).

Parameter	Symbol	Test Conditions	Notes	Min.	Max.	Unit
Output Voltage	V _{OUT}	5 mA ≤ I _O ≤ 1.0A	1 2	-12.24 -12.60	-11.76 -11.40	V
Quiescent Current	I _Q	I _O ≤ 1.0A	1 2		5 12	mA
		I _I = 1A, V _{IN} = -12 V	1,2		50	
Line Regulation	V _{RLN}	-13 V V _{IN} -26 V I _{OUT} = 5 mA	1 2		±65 ±80	mV
Load Regulation	V _{RLD}	50 mA I _{OUT} 1.0 A	1 2		±80 ±120	mV
Dropout Voltage	V _{DO}	I _O = 0.1 A	1		3	V
		DV _O 100 mV	2			
		I _O = 1 A	1		1	
		DV _O 100 mV	2			
Output Noise Voltage	V _{ON}	I _O = 5 mA, 10 Hz - 100 kHz	3		1500	μV
Short Circuit Current	I _{SC}	R _L = 1	1,2	.75		A
Maximum Output Current	I _{MAX}		1 4	1.18		A
Ripple Rejection	R _R	V _{ripple} = 1 V _{rms} I _{OUT} = 5 mA, f = 1 kHz	1	42		dB

Notes: 1. T_a = 25°C.
2. Over full operating temperature range.
3. Guaranteed, not tested.
4. The short circuit current is less than the maximum output current due to internal foldback current limiting. The -5V and -5.2V versions do not reach the foldback current limit and therefore conducts a higher short circuit level.

ELECTRICAL CHARACTERISTICS, OM2990-15SM, ST (-15 VOLTS)

Test Conditions are -55°C, T_a 125°C, V_{IN} = -20V, C_{OUT} = 47 μF (unless otherwise specified).

Parameter	Symbol	Test Conditions	Notes	Min.	Max.	Unit
Output Voltage	V _{OUT}	5 mA ≤ I _O ≤ 1.0 A	1 2	-15.30 -15.75	-14.70 -14.25	V
Quiescent Current	I _Q	I _O ≤ 1.0A	1 2		15 20	mA
		I _I = 1.0A, V _{IN} = -15 V	1,2		50	
Line Regulation	V _{RLN}	-16 V V _{IN} -26 V, I _{OUT} = 5 mA	1 2		±75 ±120	mV
Load Regulation	V _{RLD}	50 mA I _{OUT} 1.0 A	1 2		±120 ±190	mV
Dropout Voltage	V _{DO}	I _O = 0.1 A	1		3	V
		DV _O 100 mV	2			
		I _O = 1.0 A	1		1	
		DV _O 100 mV	2			
Output Noise Voltage	V _{ON}	I _O = 5 mA, 10 Hz - 100 kHz	3		1800	μV
Short Circuit Current	I _{SC}	R _L = 1	1 2	.60 .50		A
Maximum Output Current	I _{MAX}		1 4	1.4		A
Ripple Rejection	R _R	V _{ripple} = 1 V _{rms} I _{OUT} = 5 mA, f = 1 kHz	1	42		dB

Notes: 1. T_a = 25°C.
2. Over full operating temperature range.
3. Guaranteed, not tested.
4. The short circuit current is less than the maximum output current due to internal foldback current limiting. The -5V and -5.2V versions do not reach the foldback current limit and therefore conducts a higher short circuit level.

ELECTRICAL CHARACTERISTICS, OM2990-5N2 (-5 VOLTS)

Test Conditions are -55°C T_A , 125°C, $V_{IN} = -10V$, $C_{OUT} = 47 \mu F$ (unless otherwise specified).

Parameter	Symbol	Test Conditions	Notes	Min.	Max.	Unit
Output Voltage	V_{OUT}	$5 \text{ mA} \leq I_L \leq 300 \text{ mA}$	1	-5.10	-4.90	V
			2	-5.25	-4.75	
Quiescent Current	I_Q	$I_L \leq 300 \text{ mA}$	1		7	m A
			2		14	
Line Regulation	V_{RLN}	$I_L = 300 \text{ mA}$, $V_{IN} = -5 \text{ V}$ $-6 \text{ V} \leq V_{IN} \leq -26 \text{ V}$, $I_{OUT} = 5 \text{ mA}$	1,2		55	m V
			1		± 45	
Load Regulation	V_{RLD}	$50 \text{ mA} \leq I_{OUT} \leq 300 \text{ mA}$	2		± 60	m V
			1		± 80	
Dropout Voltage	V_{DO}	$I_L = 100 \text{ mA}$ $DV_{IN} = 100 \text{ mV}$	1		3	V
			2			
Dropout Voltage	V_{DO}	$I_L = 300 \text{ mA}$ $DV_{IN} = 100 \text{ mV}$	1		1	
			2			
Output Noise Voltage	V_{ON}	$I_L = 5 \text{ mA}$, 10 Hz - 100 kHz	3		800	μV
Short Circuit Current	I_{SC}	$R_L = 1$	1	300		m A
			2	250		
Maximum Output Current	I_{MAX}		1	300		m A
Ripple Rejection	R_R	$V_{ripple} = 1 \text{ V}_{rms}$ $I_{OUT} = 5 \text{ mA}$, $f = 1 \text{ kHz}$	1	50		dB

Notes: 1. $T_A = 25^\circ C$.
2. Over full operating temperature range.
3. Guaranteed, not tested.

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ELECTRICAL CHARACTERISTICS, OM2990-12N2 (-12 VOLTS)

Test Conditions are -55°C T_A , 125°C, $V_{IN} = -17V$, $C_{OUT} = 47 \mu F$ (unless otherwise specified).

Parameter	Symbol	Test Conditions	Notes	Min.	Max.	Unit
Output Voltage	V_{OUT}	$5 \text{ mA} \leq I_L \leq 300 \text{ mA}$	1	-12.24	-11.76	V
			2	-12.60	-11.40	
Quiescent Current	I_Q	$I_L \leq 300 \text{ mA}$	1		7	m A
			2		14	
Line Regulation	V_{RLN}	$I_L = 300 \text{ mA}$, $V_{IN} = -12 \text{ V}$ $-13 \text{ V} \leq V_{IN} \leq -26 \text{ V}$, $I_{OUT} = 5 \text{ mA}$	1,2		60	m V
			1		± 75	
Load Regulation	V_{RLD}	$50 \text{ mA} \leq I_{OUT} \leq 300 \text{ mA}$	2		± 110	m V
			1		± 120	
Dropout Voltage	V_{DO}	$I_L = 100 \text{ mA}$ $DV_{IN} = 100 \text{ mV}$	1		3	V
			2			
Dropout Voltage	V_{DO}	$I_L = 300 \text{ mA}$ $DV_{IN} = 100 \text{ mV}$	1		1	
			2			
Output Noise Voltage	V_{ON}	$I_L = 5 \text{ mA}$, 10 Hz - 100 kHz	3		1650	μV
Short Circuit Current	I_{SC}	$R_L = 1$	1	200		m A
			2	175		
Maximum Output Current	I_{MAX}		1	280		m A
Ripple Rejection	R_R	$V_{ripple} = 1 \text{ V}_{rms}$ $I_{OUT} = 5 \text{ mA}$, $f = 1 \text{ kHz}$	4			
			1	42		dB

Notes: 1. $T_A = 25^\circ C$.
2. Over full operating temperature range.
3. Guaranteed, not tested.
4. The short circuit current is less than the maximum output current due to internal foldback current limiting. The -9V and -5.2V versions do not reach the foldback current limit and therefore conducts a higher short circuit level.

ELECTRICAL CHARACTERISTICS, OM2990-15 N2 (-15 VOLTS)

Test Conditions are -55°C T_A , 125°C, $V_{IN} = -20V$, $C_{OUT} = 47 \mu F$ (unless otherwise specified).

Parameter	Symbol	Test Conditions	Notes	Min.	Max.	Unit
Output Voltage	V_{OUT}	$5 \text{ mA} \leq I_L \leq 300 \text{ mA}$	1	-15.30	-14.70	V
			2	-15.75	-14.25	
Quiescent Current	I_Q	$I_L \leq 300 \text{ mA}$	1		20	m A
			2		25	
Line Regulation	V_{RLN}	$I_L = 300 \text{ mA}$, $V_{IN} = -15 \text{ V}$ $-16 \text{ V} \leq V_{IN} \leq -26 \text{ V}$, $I_{OUT} = 5 \text{ mA}$	1,2		60	m V
			1		± 85	
Load Regulation	V_{RLD}	$50 \text{ mA} \leq I_{OUT} \leq 300 \text{ mA}$	2		± 130	m V
			1		± 135	
Dropout Voltage	V_{DO}	$I_L = 100 \text{ mA}$ $DV_{IN} = 100 \text{ mV}$	1		3	V
			2			
Dropout Voltage	V_{DO}	$I_L = 300 \text{ mA}$ $DV_{IN} = 100 \text{ mV}$	1		1	
			2			
Output Noise Voltage	V_{ON}	$I_L = 5 \text{ mA}$, 10 Hz - 100 kHz	3		1900	μV
Short Circuit Current	I_{SC}	$R_L = 1$	1	150		m A
			2	140		
Maximum Output Current	I_{MAX}		1	280		m A
Ripple Rejection	R_R	$V_{ripple} = 1 \text{ V}_{rms}$ $I_{OUT} = 5 \text{ mA}$, $f = 1 \text{ kHz}$	4			
			1	42		dB

Notes: 1. $T_A = 25^\circ C$.
2. Over full operating temperature range.
3. Guaranteed, not tested.
4. The short circuit current is less than the maximum output current due to internal foldback current limiting. The -9V and -5.2V versions do not reach the foldback current limit and therefore conducts a higher short circuit level.

ELECTRICAL CHARACTERISTICS, OM2990-5.2NK, NM, NT (-5.2 VOLTS)

Test Conditions are -55°C , T_A , 125°C , $V_{IN} = -10.2\text{V}$, $C_{OUT} = 47\mu\text{F}$ (unless otherwise specified).

Parameter	Symbol	Test Conditions	Notes	Min.	Max.	Unit
Output Voltage	V_{OUT}	$5\text{ mA} \leq I_O \leq 1.0\text{ A}$	1	-5.30	-5.10	V
			2	-5.46	-4.94	
Quiescent Current	I_Q	$I_O \leq 1.0\text{ A}$	1		5	m A
			2		12	
			1,2		50	
Line Regulation	V_{RLN}	$-6.2\text{ V} \leq V_{IN} \leq -26\text{ V}$, $I_{OUT} = 5\text{ mA}$	1		± 40	m V
			2		± 50	
Load Regulation	V_{RLD}	$50\text{ mA} \leq I_{OUT} \leq 1.0\text{ A}$	1		± 50	m V
			2		± 100	
Dropout Voltage	V_{DO}	$I_O = 0.1\text{ A}$	1		3	V
			2			
			1		1	
			2			
Output Noise Voltage	V_{ON}	$I_O = 5\text{ mA}$, 10 Hz - 100 kHz	3		750	μV
Short Circuit Current	I_{SC}	$R_L = 1$	1	1.5		A
			2	1.3		
Maximum Output Current	I_{MAX}		1	1.5		A
Ripple Rejection	R_R	$V_{ripple} = 1\text{ V}_{rms}$ $I_{OUT} = 5\text{ mA}$, $f = 1\text{ kHz}$	1	50		dB

Notes: 1. $T_A = 25^{\circ}\text{C}$.
2. Over full operating temperature range.
3. Guaranteed, not tested.

ELECTRICAL CHARACTERISTICS, OM2990-5.2SM, ST (-5.2 VOLTS)

Test Conditions are -55°C , T_A , 125°C , $V_{IN} = -10.2\text{V}$, $C_{OUT} = 47\mu\text{F}$ (unless otherwise specified).

Parameter	Symbol	Test Conditions	Notes	Min.	Max.	Unit
Output Voltage	V_{OUT}	$5\text{ mA} \leq I_O \leq 1.0\text{ A}$	1	-5.30	-5.10	V
			2	-5.46	-4.94	
Quiescent Current	I_Q	$I_O \leq 1.0\text{ A}$	1		5	m A
			2		12	
			1,2		50	
Line Regulation	V_{RLN}	$-6.2\text{ V} \leq V_{IN} \leq -26\text{ V}$, $I_{OUT} = 5\text{ mA}$	1		± 45	m V
			2		± 55	
Load Regulation	V_{RLD}	$50\text{ mA} \leq I_{OUT} \leq 1.0\text{ A}$	1		± 70	m V
			2		± 110	
Dropout Voltage	V_{DO}	$I_O = 0.1\text{ A}$	1		3	V
			2			
			1		1	
			2			
Output Noise Voltage	V_{ON}	$I_O = 5\text{ mA}$, 10 Hz - 100 kHz	3		750	μV
Short Circuit Current	I_{SC}	$R_L = 1$	1,2	1.27		A
Maximum Output Current	I_{MAX}		1	1.27		A
Ripple Rejection	R_R	$V_{ripple} = 1\text{ V}_{rms}$ $I_{OUT} = 5\text{ mA}$, $f = 1\text{ kHz}$	1	50		dB

Notes: 1. $T_A = 25^{\circ}\text{C}$.
2. Over full operating temperature range.
3. Guaranteed, not tested.

ELECTRICAL CHARACTERISTICS, OM2990-5.2N2 (-5.2 VOLTS)

Test Conditions are -55°C , T_A , 125°C , $V_{IN} = -10.2\text{V}$, $C_{OUT} = 47\mu\text{F}$ (unless otherwise specified).

Parameter	Symbol	Test Conditions	Notes	Min.	Max.	Unit
Output Voltage	V_{OUT}	$5\text{ mA} \leq I_O \leq 300\text{ mA}$	1	-5.30	-5.10	V
			2	-5.46	-4.94	
Quiescent Current	I_Q	$I_O \leq 300\text{ mA}$	1		7	m A
			2		14	
			1,2		55	
Line Regulation	V_{RLN}	$-6.2\text{ V} \leq V_{IN} \leq -26\text{ V}$, $I_{OUT} = 5\text{ mA}$	1		± 45	m V
			2		± 60	
Load Regulation	V_{RLD}	$50\text{ mA} \leq I_{OUT} \leq 300\text{ mA}$	1		± 80	m V
			2		± 120	
Dropout Voltage	V_{DO}	$I_O = 100\text{ mA}$	1		3	V
			2			
			1		1	
			2			
Output Noise Voltage	V_{ON}	$I_O = 5\text{ mA}$, 10 Hz - 100 kHz	3		800	μV
Short Circuit Current	I_{SC}	$R_L = 1$	1	300		m A
			2	250		
Maximum Output Current	I_{MAX}		1	300		m A
Ripple Rejection	R_R	$V_{ripple} = 1\text{ V}_{rms}$ $I_{OUT} = 5\text{ mA}$, $f = 1\text{ kHz}$	1	50		dB

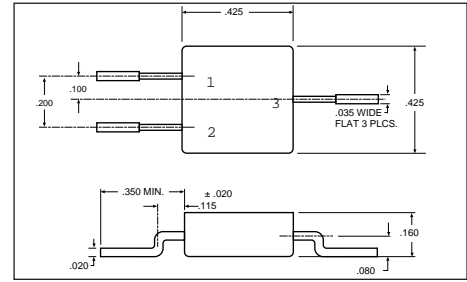
Notes: 1. $T_A = 25^{\circ}\text{C}$.
2. Over full operating temperature range.
3. Guaranteed, not tested.



TO-257AA

OM2990STM
Isolated
Front View
Pin 1 - Ground
Pin 2 - Input
Pin 3 - Output
Tab - Isolated

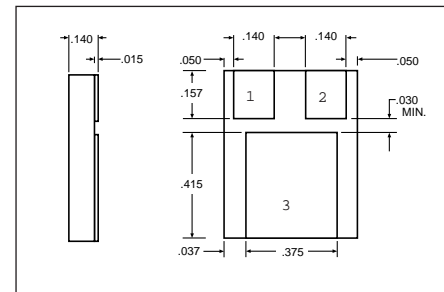
OM2990NTM
Non-Isolated
Front View
Pin 1 - Ground
Pin 2 - Input
Pin 3 - Output
Tab - Input



SMD-3

OM2990SMM

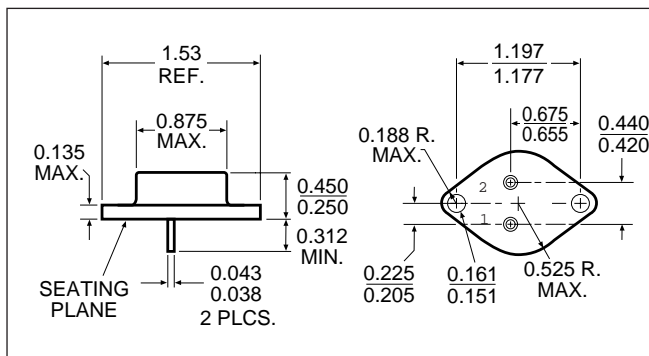
Front View
Pin 1 - Ground
Pin 2 - Output
Pin 3 - Input
Case - Isolated



SMD 1

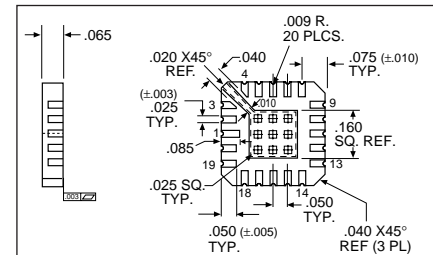
OM2990NMM

"N" PACKAGE
Pin 1 - Ground
Pin 2 - Output
Pin 3 - Input



TO-204AA (TO-3)

OM2990NKM
Pin 1 - Ground
Pin 2 - Output



LCC 20

OM2990N2M

Pin 1 NC	Pin 11 V _{OUT}
Pin 2 NC	Pin 12 V _{OUT}
Pin 3 NC	Pin 13 NC
Pin 4 NC	Pin 14 NC
Pin 5 NC	Pin 15 V _{IN}
Pin 6 Ground	Pin 16 V _{IN}
Pin 7 NC	Pin 17 V _{IN}
Pin 8 NC	Pin 18 NC
Pin 9 V _{OUT} (Sense)	Pin 19 NC

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Распределительные склады, находящиеся в России, Европе и в Китае, позволяют нам оперативно поставить необходимые компоненты в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям ISO 9001:2011

Офис по работе с юридическими лицами:

107023, г.Москва, Семеновский переулок, д.6, Бизнес-центр «АВС»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru_3	moschip.ru_6
moschip.ru_4	moschip.ru_7
moschip.ru_11	moschip.ru_8
moschip.ru_12	moschip.ru_9